

Concert for children set

The Naval Weapon Center Recreational Services Department and The Desert Area Preschool Association presents Steve Millang and Greg Seelsa, of Youngheart Records, in Concert.

To help celebrate April as the "Month of The Young Child," Steve and Greg will present "Everybody Has Music Inside" at the NWC Center theater, Thursday, April 3, at 6:30 p.m.

Advanced ticket sales begin today and go through March 28 at the following locations: NWC Children's Centers, Community Connection for Child Care, Rainbow Ridge School, Norma Square Preschool, Ridgecrest Nursery School, and the Cerro Coso Child Development Center. Tickets will also be available from March 14 until April 2 at the NWC Information, Ticket and Tour Office.

Advance tickets will be \$2.50 for adults (12 years and older), and \$1.50 for children. Tickets at the door will be \$3 for adults and \$2 for children and are subject to availability.

An autograph party and record/tapes will follow the concert at the Enlisted Mess.

NEX News

Day after tomorrow will be "super Sunday" at the Navy Exchange retail store and the Commissary — a day designed to provide every customer with bargains galore.

Sales start at 10 a.m. at the NEX, with special early bird bargains available until noon. The Commissary will begin its sale at 10:30 and will also be open until 3:30 p.m. with lots of merchandise offered at 20 to 50 percent off already low prices.

Spring fashions are the highlight of the retail store, along with fashion-colored appliances such as hair dryers in sleek designs perfect for travel, curling irons, styling hair brushes, travel hair setters, lighted make-up mirrors, both regular and magnified.

The "Shape Up for Spring" sale that has been underway for the past several days will continue into the weekend. On sale here are fleece separates and other sports clothes for spring and summer wear.

NWC HOTLINE
Integrity, efficiency program
Call: NWC ext. 3636 (24 hrs.)
or call the Inspector General at
(800)522-3451 (toll free)
288-6743 (Autovon)
(202)433-6743 (commercial)



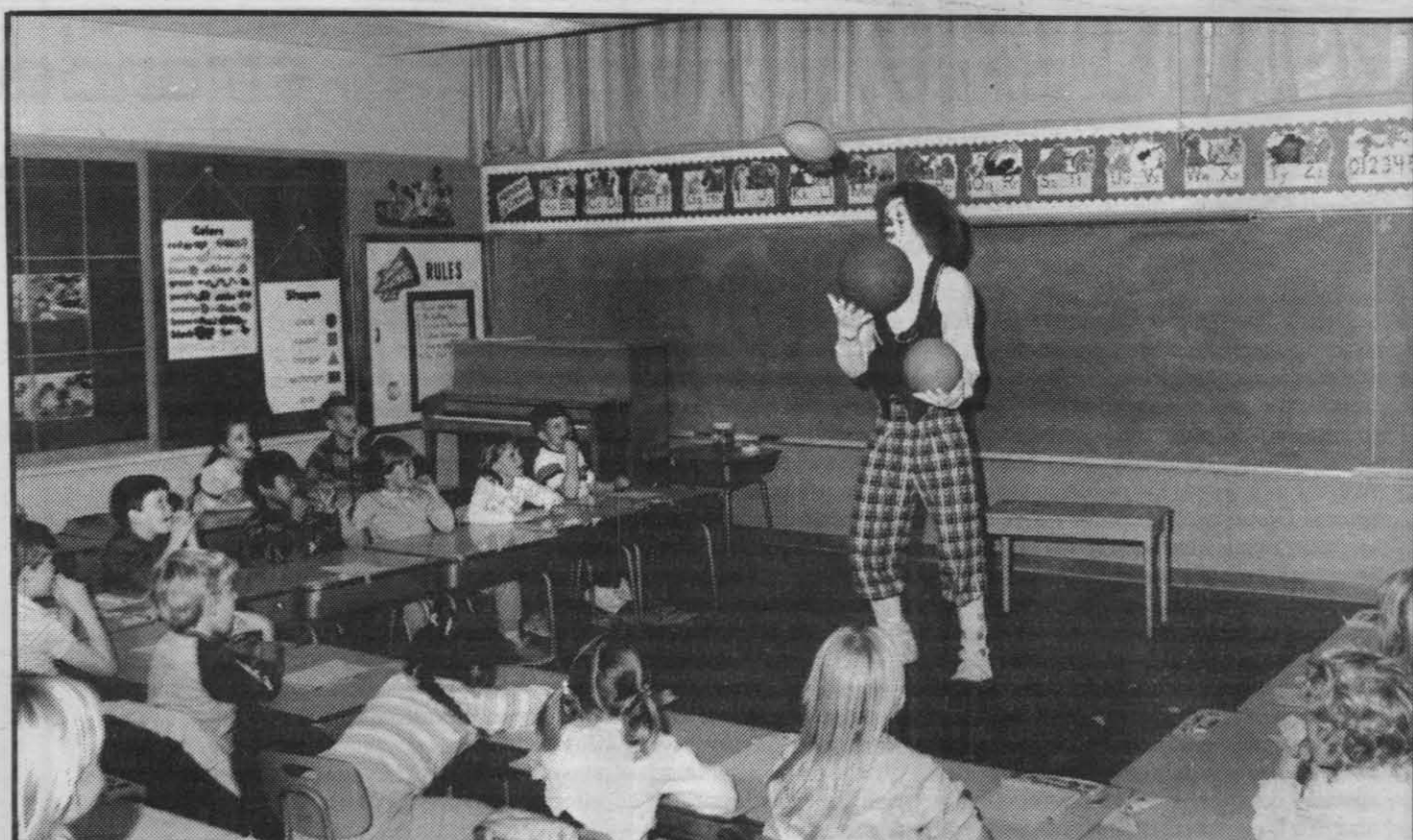
Retirements

Robert L. Mills, Code 6424, hired at NOTS/NWC Sept. 1951, through April, 1954, and Oct. 1960; estimated date of retirement, March 28, 1986.



	Max	Min	Peak Gust	Precip
Fri.	62	30	20 knots	
Sat.	57	33	33 knots	0.02 in.
Sun.	54	36	19 knots	trace
Mon.	66	34	20 knots	0.01 in.
Tues.	69	45	30 knots	
Wed.	75	38	16 knots	
Thurs.	79	36	14 knots	

All measurements are made at Armitage Airfield.



CLOWNING AROUND — Paul VanderWerf entertains youngsters at Richmond School with his juggling skills, learned during a 10-week training period that he spent at Ringling Brothers-Barnum and Bailey Clown College in Venice, Florida. VanderWerf has taken a

year off from his training to be an accountant at Sacramento State College to accept a contract with Clyde Beatty-Cole Brothers Circus. While visiting his family here before heading off to the big top, he took a morning to demonstrate his skills to youngsters

Pterosaur topic of talk April 4

Dr. Paul MacCreedy, who developed the first human-powered aircraft and the first solar-powered aircraft, has now taken a giant step into the past to build an 18-foot wing-flapping replica of an extinct flying animal. Local residents will have the opportunity to hear Dr. MacCreedy talk about his feats on Friday, April 4, at an open Technical Director's seminar.

The seminar will be held at the Center

theater at NWC from 3 to 4:30 p.m. All Center military and civilian personnel are invited to attend, as are local residents of all ages.

Dr. MacCreedy's flying devices have provided insights about achieving flight with minimum power and minimum structure as well as about relationships between biological flight and mechanical flight.

The pterosaur that he is building will be

used by the Smithsonian's National Air and Space Museum for an IMAX film, "On the Wing," a documentary about natural and man-made flying machines.

Dr. MacCreedy will talk about creativity and about how inherent mental "blindness" tend to thwart creativity. His talk is entitled "Exploring Limits of Minds and Aeronautical Creations."

Health tip of the week

Smoking increases maintenance and cleaning costs. A manager of a non-smoking hotel found he saved \$1,000 a year per room over the costs of cleaning up after smokers. He had 120 non-smoking rooms, saving him \$120,000 a year!

Movies

FRIDAY, MONDAY	MARCH 21, 24
"SWEET DREAMS"	Starring Jessica Lange and Ed Harris (Music-Biography, rated PG-13, 115 min.)
SATURDAY	MARCH 22
"FRIGHT NIGHT"	Starring Roddy McDowell and Chris Sarandon (Horror/Drama, rated R, 105 min.)
SUNDAY	MARCH 23
"PETE'S DRAGON"	Starring Helen Reddy and Mickey Rooney (Animated, rated G, 103 min.)
MONDAY	MARCH 24
MATINEE "THE LOVE BUG"	Starring Dean Jones and Michele Lee (Comedy, rated G, 106 min.)
WEDNESDAY	MARCH 26
NO MOVIE	
FRIDAY	MARCH 28
"TARGET"	Starring Gene Hackman and Matt Dillon (Adventure, rated R, 116 min.)

Starting Times: Matinee / 2 pm Evening / 7 pm

U.S. GOVERNMENT PRINTING OFFICE: 1986 - No. 20047

FROM: _____ PLACE STAMP HERE

TO: _____

Talos boosters put to new purpose at SNORT

What can be done with a Talos booster other than to boost Talos rockets into the sky? Boost rocket sleds, of course!

At least, that's the use the Center's Supersonic Naval Ordnance Research Track (SNORT) personnel are putting them to. The most recent test using these involved seat ejections, with the 30-inch diameter Talos providing the main propulsive power for the pusher sled that moves a simulated TAV-8B cockpit down the track at speeds of 750 miles per hour. Four smaller rocket motors mounted with the Talos booster ensure that the speed is maintained during ejection tests to provide a zero G environment.

For seat ejection seats (which comprise nearly one-third the workload of SNORT in

terms of hours expended by the branch's 33 personnel), a variety of rocket motors is used to meet specific test needs.

A variety of cockpit mock-ups are also used because seats are designed for specific aircraft; those now set up include the TAV-8B, TF-18, F-18, A-6, TA-7, and, under construction shortly, T-45.

The initial ejection seat tests are done statically, with an instrumented dummy being ejected (theoretically, in such tests, the "pilot" has run into problems with his aircraft before take-off). The rocket sleds are used to accelerate the test cockpits to speeds of 225 knots, 350 knots, 450 knots, and 600 knots (or approximately 280, 440, 560, and 750 miles per hour) at the time of ejection to determine how seats function at

these air speeds.

Not only are the anthropomorphic dummies and cockpits instrumented, but complete photographic coverage provides a record of what happens when the seat and dummy are ejected. For some tests, cameras are externally trained onto the cockpit from camera booms mounted on the rocket sleds. For others, cameras are actually in the cockpit or on the ground beside the track to photograph what happens to the dummy during the ejection sequence.

Rocket sleds used and the simulated cockpits are built at the Baker-4 machine shop, which is operated as an integral part of the SNORT facility. The sleds are reusable because they are slowed to a halt by a water braking system.

When special expertise (or special equipment) is needed for a test, says Bob Bouse, head of the Range Department's Track Operations Branch, other organizations throughout the Center have assisted. John Richards, a supervisory mechanical engineer in the group, says that he has called on a variety of groups for aid, from the ordnance expertise of personnel in the Ordnance Systems Department, to the use of special hoses from the Center's Fire Division to provide a breach deluge system.

The Talos boosters were acquired several years ago when they were removed from active service and declared as surplus. They have served the Navy's research, development, test and evaluation programs well ever since.

Swift action saves life

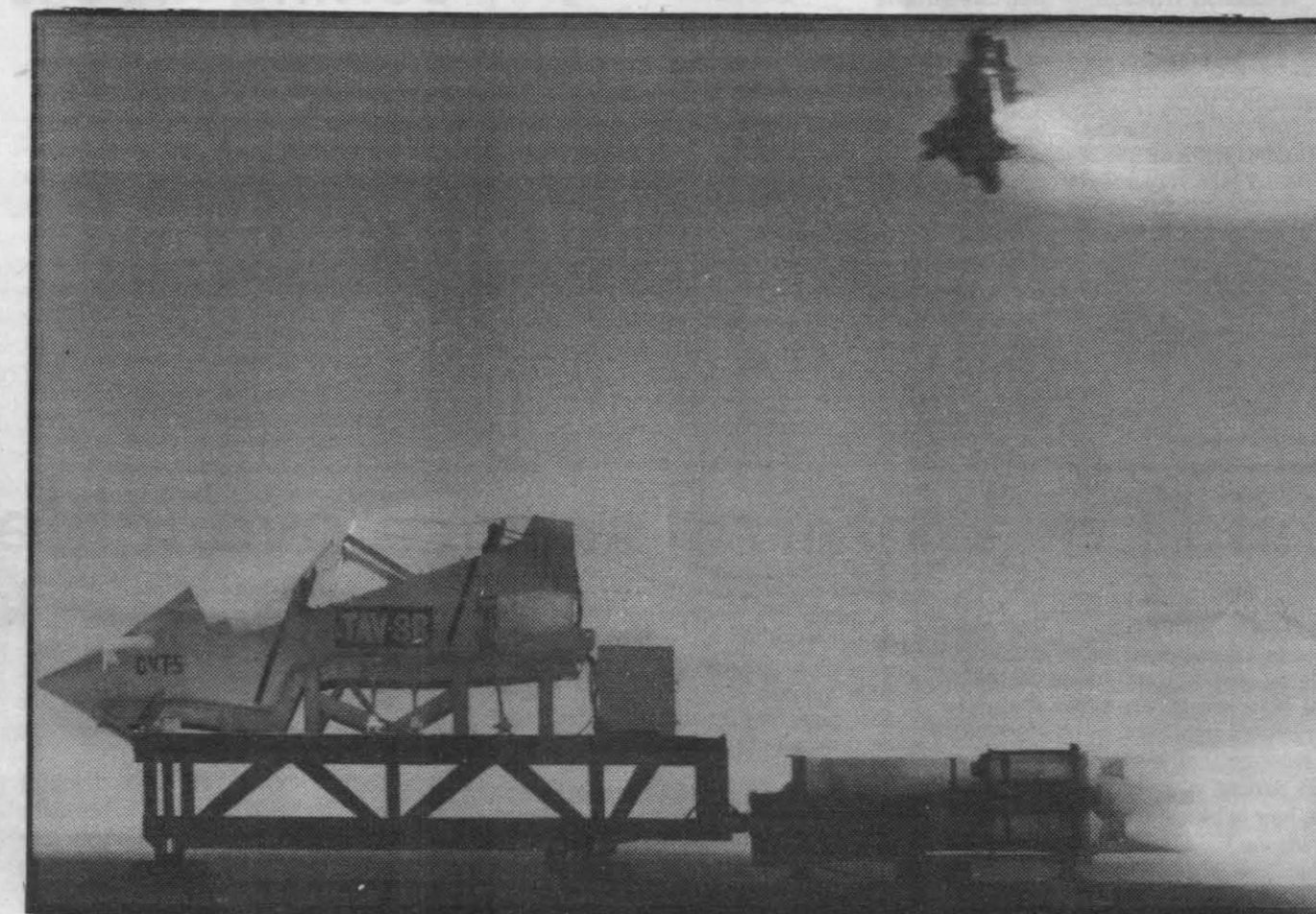
One basketball fan may owe his life to the quick thinking of a Naval Weapons Center employee. Odessa Newman, a correspondence program manager in the Records Management Office of the Central Staff Department, administered cardiopulmonary resuscitation to a man at the NWC gym during a Saturday morning youth basketball game.

Ms. Newman, who came to NWC late last year from Ft. Mugu, was attending the game to watch one of her children play. Sitting with another Center employee, she noticed an elderly man across the gym who appeared to be unconscious. Ms. Newman went to his aid, discovered he was not breathing and she could not detect a pulse.

The man had been watching his grandson play on the other team in the same game when he suffered an apparent heart attack.

Asking someone to call an ambulance, Ms. Newman started CPR and had the victim breathing when paramedics arrived. They credited her quick actions with probably saving his life.

Ms. Newman, who has seven children at home, would like to see a larger community CPR program established in the Indian Wells Valley to give more people the kind of life-saving training she put to use that Saturday morning.



WHEEEEE — An anthropomorphic dummy gets airborne during seat ejection tests at SNORT. Powering the pusher rocket sled moving the simulated cockpit down the track at about 750 miles an hour is a Talos booster rocket, with four small rocket motors used to maintain the speed so that zero G is maintained during the actual ejection. The Talos boosters were acquired by SNORT as surplus.

Cdr. Gene Allen takes over in Aircraft Department

Cdr. Kenneth E. (Gene) Allen has arrived at the Naval Weapons Center to relieve Capt. John W. Patterson as head of the Aircraft Department and Deputy Test and Evaluation Director. Cdr. Allen has been selected for promotion to Captain. Capt. Patterson has become Deputy Laboratory Director.

A veteran of 30-years Naval service, Cdr. Allen began his career by spending 11 years as an enlisted sailor before winning his commission through the Naval Science Education Program (NSEP). He is a designated Material Professional and was last assigned to Roosevelt Roads, Puerto Rico as commanding officer of Fleet Composite Squadron Eight (VC-8).

Cdr. Allen noted he applied for and was accepted into aviation training after he completed his college degree work under NSEP in 1967.

The new head of NWC's Aircraft Department has been an A-7E pilot while deploying aboard the Kitty Hawk and the Saratoga. While assigned to Naval Test

Pilot School at NAS Patuxent River, he flew many of the aircraft in the Navy inventory.

A graduate of the Naval War College and Defense Systems Management College, Cdr. Allen is serving his first tour of duty at China Lake. While assigned to Naval Air Systems Command Headquarters he was in and out of China Lake many times, and was familiar with work here.

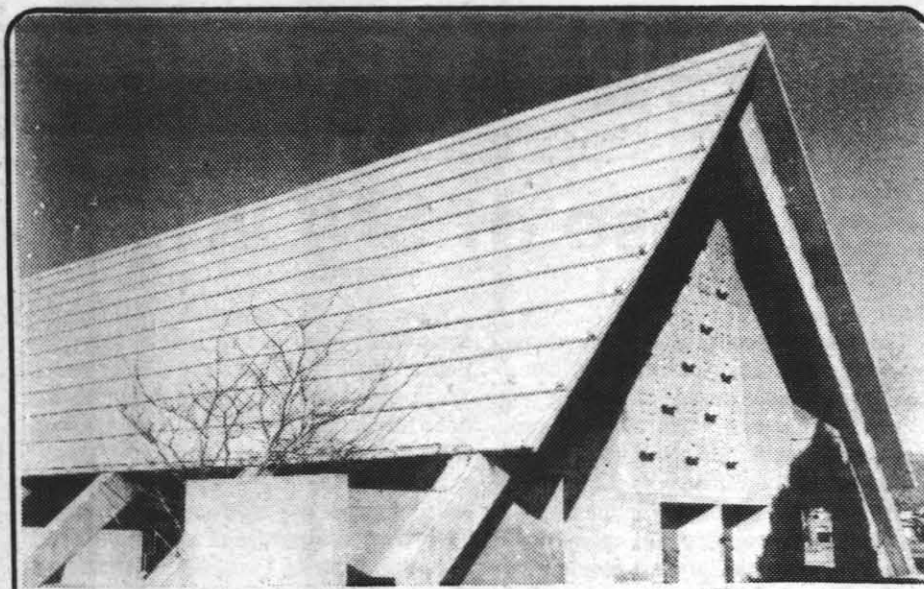
"When I first entered the Navy I was always looking to improve myself," commented Cdr. Allen. That led to the NSEP which offered a guarantee of a commission with successful completion.

"I hope to make this the best department 'on-center,'" he noted. Cdr. Allen also said the dual role will be very challenging and provide him a full schedule.

Cdr. Allen and his wife Nancy look forward to their stay here. They are active outdoors people who enjoy camping trips. Cdr. Allen, who was raised in Colorado, enjoys hunting and fishing and is looking forward to doing some while here.



DEPARTMENT HEAD — Cdr. Kenneth E. (Gene) Allen, is the new head of NWC's Aircraft Department and Deputy Director of the Test and Evaluation Directorate.



Divine Services

PROTESTANT

SUNDAY WORSHIP SERVICE 10:30 a.m.
SUNDAY SCHOOL (Annexes 1, 2, 4, and the East Wing) 9 a.m.
BIBLE STUDY (East Wing)

Tuesday 7:30 p.m. (Nursery provided) Sept. through June
 Wednesday 11:30 a.m. Sept. through June
 Thursday 7:00 p.m. Officer's Christian Fellowship
 Christian Military Fellowship

ROMAN CATHOLIC

SUNDAY MASS 9:00 a.m.
CONFESSIONS (Sunday) 8:15-8:45 a.m.
COMMUNION SERVICE (Monday) 11:35 a.m.
DAILY MASS (Tuesday through Friday) 11:35 a.m.
CONFESSIONS (Friday) 4:30-5:00 p.m.
RELIGIOUS EDUCATION CLASSES (Sunday) Sept. to May 10:30 a.m.

JEWISH

WEEKLY SERVICES (Friday, East Wing) 7:30 p.m.
ADULT EDUCATION (Saturday, Annex 4) 9 a.m.
RELIGIOUS SCHOOL (Sunday, Annex 4) 1 p.m.

Chaplain J. Milton Collins, Capt., CHC, USN
 Chaplain A. J. Smith, Cdr., CHC, USN
 Chaplain Jason E. Knott, LCDr., CHC, USN
 Phone, NWC ext. 3506, 3507

Child Care referral service available locally

Parents often have to search for the proper, "safe" environment for their child which has vacancies, is easily accessible, affordable, and is open during the hours needed while parents are either at work or just enjoying a night out.

To help combat overcrowding and to provide parents with choices and information on how to pick the best place for their children, the California State Department of Education is providing funding for an agency called the Community Connection for Child Care (CCCC) to provide resource and referral information in Bakersfield and Ridgecrest.

CCCC provides many services to the Ridgecrest/China Lake area. First, they help start the licensing process and provide support to people who would like to earn money while staying home with their children and still provide a community service. The local licensing agency for family day care is the Kern County Welfare

Department in Ridgecrest.

A family day care home is licensed for 6 children including the provider's own. No more than three of the children may be under 2 years of age; however, if a provider cares only for children under 2 years, the maximum number of children in the homes is four.

The license regulates adherence to health and safety codes. It does not evaluate the programs the provider has for any children watched. Finger-printing, a health check, as well as a background search of any prospective provider as well as any person over 18 years of age living in the home, is standard procedure during the licensing process.

Family day care hours tend to be more flexible than centers. There are homes that do weekend and evening care, part-time care, and drop-in care. They serve a variety of age groups, from infants to school age.

If a family day care home cares for the children of more than one family, the law

requires that it be licensed.

Day care centers which are run under specific regulations, such as space available, child-to-adult ratios, and health safety, curriculum, etc., are licensed by the Community Care Licensing Division in Fresno.

Secondly, CCCC provides training workshops for those interested in becoming licensed family day care providers. The sessions include information about small business management and creating a safe, nurturing environment for young children in the home. The training itself is free and child care will be available to those who need it.

Thirdly, CCCC also provides help in finding proper care for parents. CCCC tries to match the parents' requirements and preferences with the names of three licensed child care providers from a complete and updated list of vacancies in this area. After the parents have received these names, it is

up to the parents to contact each prospective provider and arrange for an interview.

Chris Brown, Department Assistant in the Ridgecrest Office, says that because CCCC cannot recommend any one person, only give referrals, CCCC provides a booklet entitled "Choice Not Chance" to help parents make an informed decision on the best place for their child, whether it be a day care center or from a licensed family day care provider.

The free booklet explains the different types of child care available, gives helpful advice on how to choose the right program for the child, what to look for as far as environment is concerned, how to observe the caregivers to decide if they are suitable for the child, and danger signals which should automatically rule out a home or center from a final choice.

For more information on child care, whether providing it or receiving it, contact CCCC at 375-3234, 840 N. Norma, Suite C.

Organ donations sought

Under the Uniform Anatomical Gift Act, you can donate your entire body or specific parts of it for transplantation or other medical purposes.

According to a recent survey by the American Medical Association, most people strongly support organ transplantation efforts, but they are not as enthusiastic about organ donation. The association found that only about 19 percent of the population carries transplant donor cards.

This wallet-size card, available at hospitals or organ banks, specifies your desire to be an organ donor. The card acts as a legal document. Many state driver's licenses have a section where you can also specify your wishes.

Even if you take these steps to make your wishes known, your next of kin will probably be contacted at the time of your

death for permission to remove any organs. That's why it's important that you tell your next of kin, as well as your doctor, of your intentions.

The Uniform Anatomical Gift Act specifies that organs can be removed only after the donor is "brain dead" — meaning that there has been irreversible brain damage and that the body is being kept alive by support systems.

Usually a donor is an accident victim with irreversible brain damage, but whose blood is still circulating and keeping the body alive.

However, even if the donor dies before his organs can be removed, there are still parts of the body that can be salvaged — tissue, bone and the body itself.

According to one respected foundation, the most needed organs are kidneys, bone marrow and corneas.

Setting fires is call for help

Is a child who sets fires or plays with matches really calling for help?

Carl Williams, Chief of the Kern County Fire Department, says that may be the case. He adds if this cry is unheeded, the child is a danger to himself and those around him. Children who display a fascination with fire, play with matches often, or set fires intentionally may have an emotional problem requiring professional help.

It's not unusual for a child, around the age of five to seven, to experiment with matches or lighters once or twice, so it's important to keep these out of the reach of

children. If a child continues to play with fire, even after understanding the dangers involved, then that child needs help — either fire education or counseling.

If parents feel that they have a problem with their child, the Kern County Fire Department suggests they call for help. They advise strongly that parents don't ignore obvious signs of a child playing with matches or fire such as burnt matches, paper, candles or evidences of burn holes in a child's clothing. One or more lives may depend on that child's getting help.

CLMRG a welcome sight to stranded climbers

Few sights are more welcome to a stranded hiker in the High Sierra than members of the China Lake Mountain Rescue Group (CLMRG) climbing to the rescue.

This is not an infrequent event for CLMRG members. The group, now nearly 30 years old, conducted six rescue missions during 1985 and conducted 12 searches for 20 people, 15 of whom were found alive.

Founded in 1958 by a small group of active mountaineers, China Lake Mountain Rescue Group has been active ever since, stressing public education in the high country as well as going out to help those who do get in trouble.

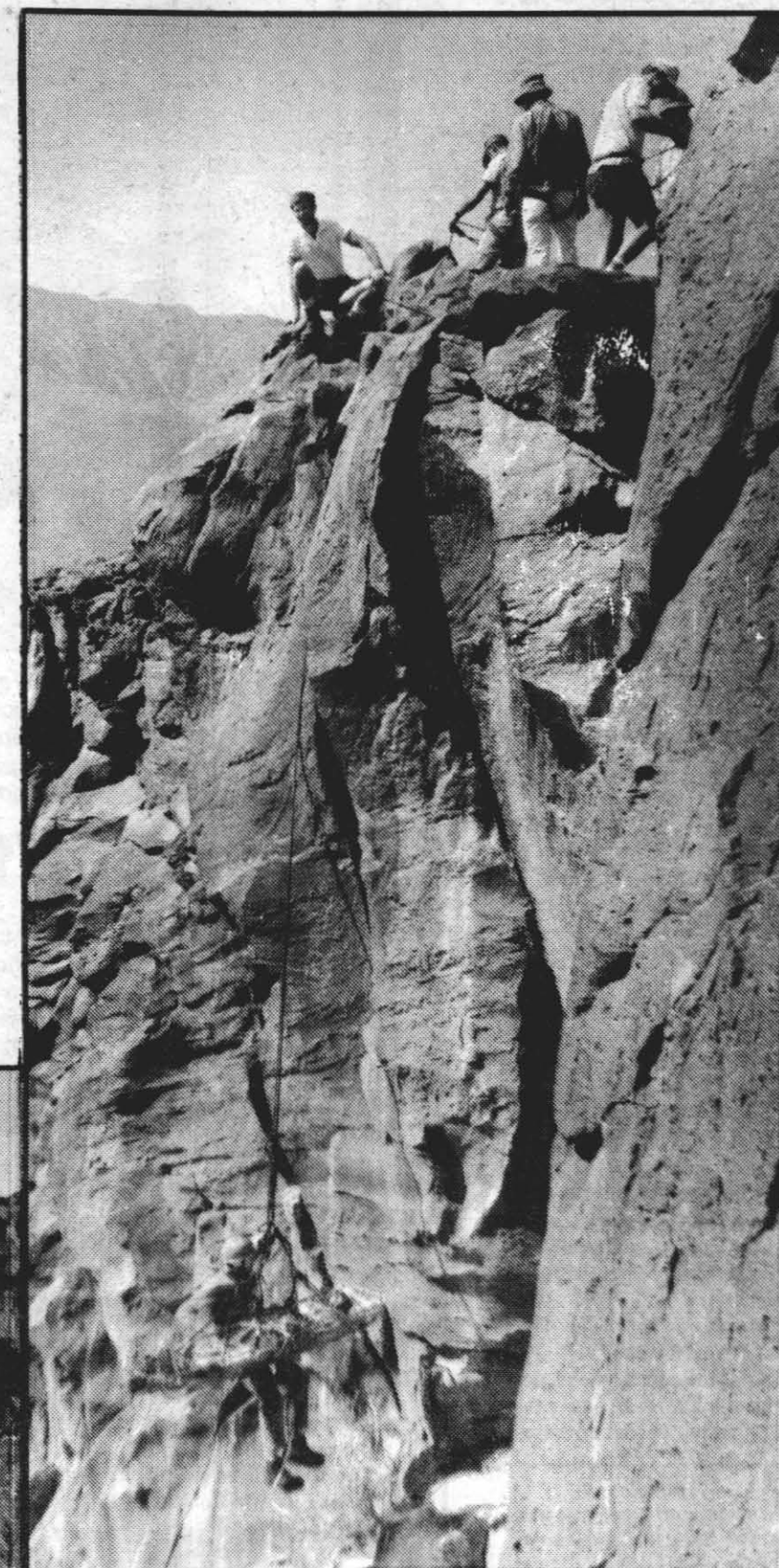
A United Way Agency, CLMRG members provide all their basic equipment and clothing, an estimated \$2,000 worth at a minimum. Funding from the United Way goes for radios and specialized equipment used in rescues only. Members are also special deputies in the Kern County Sheriff's Department and work closely with sheriff's deputies when called out for a mission.

All volunteers, CLMRG members are dedicated to saving lives through rescue and public education. Teaching wilderness safety to the general public through programs like the popular and highly successful "Hug-A-Tree" program remains a priority area for members of this rescue organization.

CLMRG belongs to the Mountain Rescue Association, a nation-wide organization of rescue teams with the knowledge of what to do and the experience to do it.

Although capable of performing rescue operations in any terrain or weather conditions, the group's primary operating areas are the mountains of the desert and the eastern Sierra.

Because of expertise in mountain rescue and in winter rescue, CLMRG members have been alerted to give assistance to rescue efforts throughout the nation. In 1984 the team went on alert when an airliner crashed in the Bolivian mountains.



There are very special skills and intense dedication required of members. They have to stay in top physical condition because their assistance may be needed at any time. All rescue personnel have advanced first aid training, are trained in helicopter rescue, technical rock climbing, search and tracking and more. Many of them are also winter rescue qualified since CLMRG is expected to conduct winter search and rescue operations when the need arises.

Bob Huey, new president of the group, notes initial call-out is normally by the Kern County Sheriff's Department. Many members keep a prepared pack at the rescue hut for quick response to any emergency.

Anywhere from seven to 20 members will respond to a call for assistance. Usually a small advance team is dispatched to the scene as quickly as possible with larger team following to establish a base camp and move to join or assist advance team members.

Advance team members are usually among the fastest hikers and climbers who are frequently called on to hike through the night to reach an injured or stranded climber.

CLMRG members may go in by helicopter if the Navy, U.S. Forest Service or law enforcement helos are available and conditions permit.

From the end of May until late September, CLMRG members can anticipate one alert or call-out per week as those unfamiliar with the high country try to climb Mt. Whitney and other peaks in the eastern Sierra region.

When the SAR helicopter from NWC is available, many mountain rescues can be accomplished easily. When air transportation is not available, the task becomes more difficult and more time consuming.

Huey noted after a victim has been located, if the person is injured, team

members, in addition to preparing them to be evacuated, must give lots of T.L.C. (tender loving care). Even after the injury is stabilized such care can be a vital factor to getting the victim out alive, and keeping spirits high.

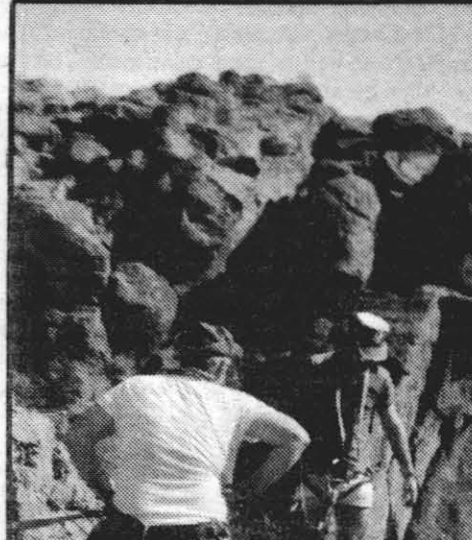
CLMRG members also have to take precautions to maintain their own stamina so they can carry out the rescue. This is in spite of fatigue and probably less than ideal weather conditions.

Rescues take a great deal of coordination in the field. Teamwork becomes more than just an expression under these conditions. Coordinators, leaders, rescue personnel, support teams and others all work together when CLMRG gets the call.

A vital part of their "Hug-A-Tree and Survive" public education program is getting the word out to youngsters in the area about wilderness safety. CLMRG members give presentations to school assemblies as well as other groups in an effort to give people who get lost in the wilderness a better chance of being found alive.

The Rescue Group also offers mountaineering classes each summer as a means to teach interested area residents about rock climbing and safety techniques used in climbing. This class has also proven to be a good place for those interested in joining CLMRG to get acquainted with members and requirements of membership.

Presentations to interested groups on the "Hug-A-Tree" program or on mountaineering can be arranged by calling Huey or Mary Wyatt, who heads the public education committee, at NWC ext. 2951-368.



CLMRG Photos

College alums seek officers

Any Cerro Coso Community College graduate who would be interested in serving on the board of directors of the college's alumni association is encouraged to apply to Joann Williams, Director of Alumni Relations. Candidates will be reviewed by the Alumni Association board and voted on

by the board.

Alumni Association board members plan and implement activities for the association, including its scholarship program.

Further information can be obtained by telephoning Ms. Williams at the college, 375-5001, ext. 231.

Holy Week Services

PALM SUNDAY -23 March 1986- Main Chapel 8:45 a.m. Catholic Mass
 10:30 a.m. Protestant Worship Service

TUESDAY -25 March 1986- Main Chapel 7 p.m. Catholic Communal Penance Service

HOLY THURSDAY-27 March 1986- East Wing 7 a.m. Community Breakfast
 Main Chapel 5 p.m. Catholic Mass
 East Wing 6 p.m. Soup Supper
 Main Chapel 7 p.m. Protestant Communion Service

GOOD FRIDAY -28 March 1986- Small Chapel 12 noon Protestant Service
 Main Chapel 5 p.m. Catholic Service

EASTER VIGIL -29 March 1986- Main Chapel 6 p.m. Catholic Mass

EASTER SUNDAY-30 March 1986- Main Chapel 9 a.m. Catholic Mass
 10:30 a.m. Protestant Worship Service

Members of the China Lake Mountain Rescue Group (CLMRG) are shown in action during a rescue operation on a steep mountain slope. The team is equipped with ropes, harnesses, and other specialized gear. The terrain is rugged and the rescue is a complex task requiring teamwork and expertise.

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MOUNTAIN RESCUE — Special skills needed for mountain rescue work come with training. China Lake Mountain Rescue Group members spend many hours each year training for difficult rescues such as being demonstrated here.

NWC Rocketeer

Captain K. A. Dickerson
 NWC Commander

B. W. Hays
 Technical Director

Denny Kline
 Public Affairs Officer

Mickey Strang
 Editor

Steve Boster
 Associate Editor

PH2 Rick Moore
 PHAA Bob Heynolds
 Staff Photographers

Official Weekly Publication
 Naval Weapons Center / China Lake, California 93555-6001
 (619) 939-3354 or 939-3355

Deadlines: News Stories-Tuesday, 4:30 pm / Photographs-11:30 am

The Rocketeer receives American Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NAVSO P-35 revised May, 1979. Office at Nimitz and Lauritzen. Information published in the Rocketeer does not necessarily reflect the official view of the Department of Defense. Information in the Rocketeer is authorized for public release by the Naval Weapons Center Public Affairs Officer, Code 003.

DFG relocates big horn sheep in high Sierra

Twenty-seven magnificent California bighorn sheep are roaming steep, rocky 7,000-foot peaks near Mono Lake for the first time since before the turn of the century.

Thirteen ewes, seven rams and seven lambs were captured from a herd of approximately 215 bighorns located in the Mount Baxter area of the Inyo National Forest in Inyo County this month and transported 85 miles north in specially designed vehicles to Lee Vining Canyon, where they were released back into the wild.

Department of Fish and Game biologist and bighorn sheep authority for the state, Dick Weaver, said this operation was the most successful one-day capture effort in the eight-year history of the department's activities to expand bighorn populations in California.

The latest operation was the third in a series of DFG-conducted transplants in the

area to reestablish at least two major 100-plus populations of the elusive California bighorn.

In all, 10 bighorn sheep transplants have been successfully completed statewide, since 1979.

Vern Bleich, Fish and Game wildlife biologist in Bishop, said exclusive of the 27 sheep relocated to Lee Vining Canyon, four additional animals were fitted with radio transmitter collars and released at Wheeler Ridge to facilitate monitoring a bighorn community at that location, and an eight-year-old ewe with a broken leg was trapped

and euthanized.

The older animal had broken the leg prior to capture and the decision made to put her down after carefully weighing alternate possibilities, Bleich said.

In addition to DFG personnel, Inyo National Forest and Yosemite National Park employees joined members of the Society for the Conservation of Bighorn Sheep and other volunteers to man two linear drive net sites and a processing center near the capture location, for a total crew of about 50.

Soft fiber drive nets, each about 100 feet

long and eight feet high, were stretched across suitable flat areas located halfway up 9,400-foot Sand Mountain, near bighorn sheep populations.

At the processing center, a medical crew under the direction of DFG veterinarian, Dr. Dave Jessup, inoculated each animal with vitamins and antibiotics, collected vital data and fitted each with ear tags and identification collars. Most were fitted with radio transmitter collars.

Wildlife biologists believe the herd will migrate from the Inyo NF to pristine Yosemite NP lands during summer months to provide a unique experience for high-country back packers.



Sports

Scorpions open play with loss

Spring soccer play opened last weekend for China Lake soccer teams including the newest Scorpion Soccer Club, the under-14 or Scorpion 72 team. This new squad lost a 3-2 close encounter with the Grand Terrace Strikers of the Inland Empire Youth Soccer League on Saturday.

Weak midfield play hampered the Scorpion effort to start their season with a victory. The Strikers took a 3-0 lead before the China Lake squad could rebound.

With 15 minutes left in the contest, aggressive Scorpion play led to a pair of goals. Mike Bowen and Ted Mechtenburg both notched goals to keep it a close game. The visitors were unable to dent the line with the goal that would have tied the game however.

Coached by George Mills, the Scorpion 72 team was formed this year, joining the under 19 and under 16 teams to provide more playing opportunities for area youths.

Coach Mills said the team lacks only experience in its drive to become a factor in the IEVSL in the years ahead.

Ridge runners fight weather

Braving wintry winds and cool weather, 28 runners took part in the Sixth Annual Rademacher Ridge Run on Sunday morning.

Jack Osborne turned in a time of 62:13 to capture top honors in the 15 kilometer (9.3 mile) race through the hills east of Cerro Coso Community College. This is the best time ever recorded for this challenging course.

Second place honors belonged to Ron Ryan with a 68:14 clocking while B. Ogilvy had a 69:03 time for third place.

Dianne Lucas was the fastest woman with a 76:12 time followed by Mary Moore in 77:17.

This annual event was sponsored by the Over-The-Hill Track Club.

Mini-Triathlon group meets

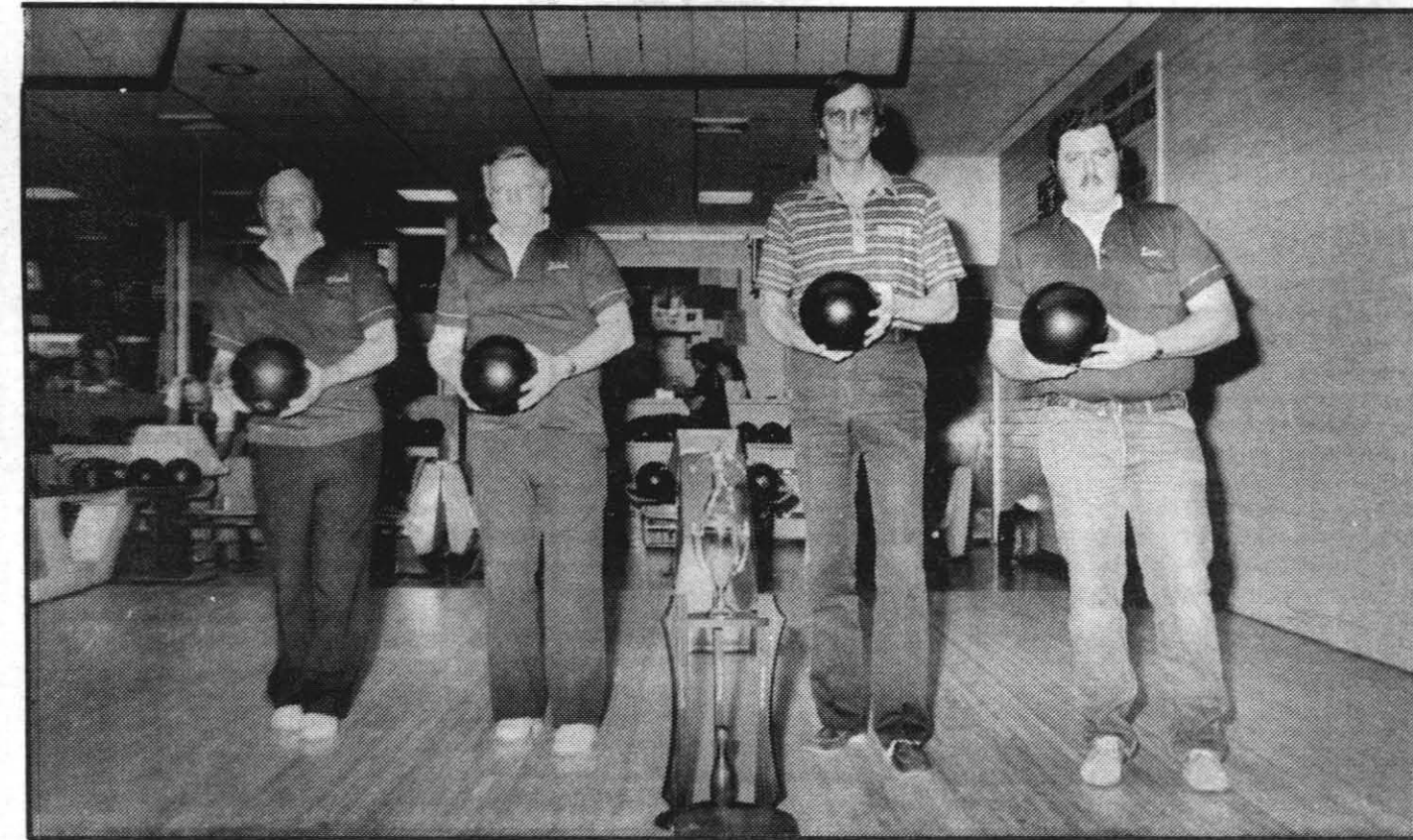
Anyone interested in helping to organize this year's Youth Mini Triathlon is invited to attend an organizational meeting on March 27, at 4:45 p.m.

This meeting will be held at the NWC Recreational Services Department Office, conference room, located between the gymnasium and the Center theater.

First ace of '86

China Lake Golf Course recorded its first hole-in-one of 1986 recently when Bob Coenen ace'd the par-three sixth hole.

This was the first time Coenen has recorded an ace. He used a five iron for unusual golf accomplishment.



TOP TEAM — Bowlers from Jones' Mobil easily won the Premier Bowling League championship this year. Bowlers on the team this year were Don Watson, Pat Nally, Dick Switzer, Chuck Cutsinger and Carl Foshay (missing from photo). They ended their season with Monday night action.

Spring soccer action starts with Scorp win

Spring soccer action for the under-16 Scorpion Soccer team opened with a hard-fought 3-2 triumph against the home team Fontana Jam on Saturday.

A pair of goals by Matt Ziegler gave the Scorps an early boost in their season opening contest. What proved to be the key goal was a score by Dan Hobson, a new member

of the team who notched his first score as a Scorpion.

Defensive efforts by Tom Caves and Brian McCary were instrumental in limiting the home team to just two goals. Other newcomers, Steve Anderson and Robert Crouse played well according to Coach John Piri.

The coach said this win, a come-from-behind effort, showed the maturity of this squad. They got a pair of goals in the final 10 minutes of play to come up with the triumph.

Tomorrow (Saturday) the Scorps will be on the road to face the Riverside Devils at Riverside Poly High. Game time is set for 1.

Jones' Mobil easily wins bowling title

Jones' Mobil easily won the Premier Bowling league with a 319-160 record, well in front of the second place Buggy Bath team's 272-208 mark.

Play in the league ended on Monday as Jones' took 13 of 20 games from the second place squad.

Third place honors went to the Elks Lodge kegglers with a 244-239 mark followed by The Place in fourth and Thrifty Wash in the number five slot.

Farris' Restaurant team had the high team honors for the seasons' final week

with an 800 game and a 2,250 series. High team game for the season went to The Place with a 839 while high team series for the year was a tie at 2,300 between Farris' and Hideaway bowlers.

High individual honors for this week belong to Ron Keck with a 225 game while Tracy Brandt had a 223 game. Hub Zimmerman put together games of 209-210-235 for a 634 series.

Zimmerman had the top series of the year with this week's 634. Top games of 258 each belong to Alex Ribultan and Gary

Paulson. Most improved bowler of the year honors went to Paul Cowan.

Standings	W	L
Jones Mobil	319	160
Buggy Bath	272	208
Elks Lodge	241	239
The Place	235	244
Thrifty Wash	228	252
Farris' Restaurant	221	259
Hideaway	220	260
Hooper's Troop	183	298

scheduled during Easter week.

For additional information on this planned

Pony / Colt loop tryouts scheduled

Youngsters interested in playing in the 1986 Indian Wells Valley Pony/Colt Baseball League have another opportunity to take part in tryouts and registration

ed action call HM2 Jean Bornett, nights, at NWC ext. 2461.

The make-up session will start at 9 a.m. at the China Lake Pony League Field tomorrow (Saturday).



The Skipper Sez...

QUESTION

Civilian employee — My question deals with purchasing. In the process of learning about stubs and processing stubs, we were introduced to a GSA contract. A GSA contract is, I believe, a competitive document and ends up with a list of items which can be purchased under the GSA contract number. Evidently, locally a ruling has been imposed regarding a GSA purchase and even though the item, or items, are on a GSA contract, you must go out and price them. It is called a comparative pricing situation.

I am curious, why, if we have a GSA contract, must we also go out and comparatively price the items. It seems to me that once a GSA contract is completed, you have already done that; and I am very curious why this is imposed upon the system here locally. Thank you very much.

ANSWER

Your inquiry results from a partial understanding of GSA schedules and their use. There are two kinds of GSA schedules. The first kind is known as a single award schedule, and is a competitive contract which is awarded by GSA to only one bidder. If a required item is available from this kind of GSA schedule, competition has already been accomplished, both price and delivery parameters have been established, and further competition by local purchasing offices is neither needed nor permitted.

The second type of GSA schedule is called a multiple award schedule. This means that there is more than one vendor on the schedule for the same items. Each company may have somewhat different prices and other terms, including delivery capability for various geographic locations. The reason for these multiple award schedules is to provide the buyer with a limited but acceptable range of possible sources which have been responsive to GSA requirements at predetermined limits of price and terms. Using this type of schedule, a buyer may quickly identify the GSA sources which appear to provide the best price and delivery for the particular buy being made.

However, while a company on a GSA schedule cannot raise its prices while the schedule is in effect, other conditions (such as an excess stock level) may cause the company to offer the government an additional discount for a specific purchase. For this reason, a buyer cannot rely exclusively on the prices listed in the schedule. To assure that the government is receiving the best possible price, a buyer must contact more than one source.

Also, except for "mandatory" schedules (which also have specific procedures regarding their use and may be either single or multiple award), buyers may request quotes from a source not on the schedules. This will occur as a matter of operational practice if the requestor suggests a source offering a lower price.

These are not local rules; they apply to all government purchasing offices. In short, multiple award GSA schedules facilitate faster buying and easier payment processing, but do not remove the requirement to obtain competition on items costing more than \$1000 if the schedule is non-mandatory, and to verify that the lowest possible price has been obtained on items costing over \$500 if the schedule is mandatory.

All China Lakers, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. K. A. Dickerson. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave name and address for a direct contact, but this is not required otherwise. There is no intent that this column be used to subvert normal, established chain-of-command channels.



HUMANITARIAN AID HONORED — Providing cardiopulmonary resuscitation to a heart attack victim earned Lt. E. J. Roy of the China Lake police a certificate of appreciation signed by President Ronald Reagan in his role as honorary chairman of the Red Cross. Making the presentation is Dr. Cornelis Van Der Hoek, who is on the board of the American Heart Association. — Photo by PHAA Bob Reynolds

CPR use to save life wins special award for Lt. Roy

Proud recipient of the Presidential Award for saving a life is Lt. Ervin Roy of the China Lake Police Division, who received the award for rendering cardiopulmonary resuscitation to a heart attack victim late last year.

The certificate, signed by President Ronald Reagan in his role as honorary president of the American National Red Cross, was presented to Lt. Roy in a ceremony held in the police training room at the Naval Weapons Center March 18.

Making the presentation was Dr. Cornelis Van Der Hoek, who is on the board of the American Heart Association. Also present was Diane Grattaroti, Administrative Assistant for the American Red Cross, as well as Don Cortichiatto, acting Director of Safety and Security for NWC, China Lake Police Chief Jim Brown and members of the Police Division.

As Dr. Van Der Hoek made the presentation, he noted the certificate was being given in recognition of Lt. Roy's prompt and humane action.

Nicolas, Canonigo, an employee of a con-

tractor at the Enlisted Dining Facility, collapsed at work at 10 a.m. on Oct. 24 last year. Providing immediate CPR was MS3 Marshall W. Adkins, who has since been transferred to Adak, Alaska. Petty Officer Adkins summoned help; Lt. Roy responded and the two men performed CPR on the victim until the Fire Division ambulance arrived to transport the victim to the Ridgecrest Community Hospital.

Dr. Van Der Hoek pointed out CPR can be life-saving when someone's heart has stopped because there is a four-minute period during which getting that heart restarted means no permanent damage will occur because of lack of circulation to the brain.

Anyone who is trained to take such quick action could well be saving a life since many times the heart stoppage comes from a relatively minor myocardial infarction.

"The Heart Association appreciates what you have done," Dr. Van Der Hoek told Lt. Roy. "We hope that others will use you as an example."

Both the Heart Association and the American Red Cross teach CPR locally.

Fraud, forgery, conflict of interest under NSIC scrutiny

Specializing in investigating fraud, forgery and conflict of interest cases at NWC is A. G. (Fred) Booth, one of the Special Agents of the Naval Security and Investigative Command (NSIC), formerly the Naval Investigative Service.

His tasks include the investigation of procurement fraud, either by personnel employed by the government, or by contractor personnel. Examples of the types of cases in which he is involved are when mischances are suspected or when claims are put in by a prime contractor for more than his subcontractor charged, or for work not accomplished.

He is also involved when materials are substituted by a contractor, and are of sub-standard quality. Private companies are in business for just one reason — to make a profit. Unfortunately, some companies who contract with the government want more than their fair share of the profit, at the expense of the taxpayers.

Travel claims are also being looked at closely, and any potential fraud in travel claims becomes a matter for NSIC investigation and action.

Forgery, Booth says, involves both filling out documents using someone else's name, and bad checks. He notes that NSIC is not a collection agency; criminal intent must be involved before NSIC acts in these cases.

In addition, potential conflict of interest falls into his area of expertise. Booth adds

that anyone who is concerned about being involved in a conflict of interest should contact Lt. Col. Mike Kelly, Staff Judge Advocate, or the General Counsel's Office (Code 023). The problem, he states, is even the "appearance of" a conflict of interest to the public can be a violation.

"Actually," Booth says, "with most fraud, the only way we are able to find something wrong, is if we are alerted by people on the job who think that something may be out of kilter." He adds that he also

depends a lot on NWC departments for help — and that they have been outstanding in assisting NSIC.

"If you have any concerns about possible fraud or conflict of interest," Booth says, "please phone me." You can telephone him at NWC ext. 2063, or you can telephone the NWC hotline at NWC ext. 3636. If you don't want to leave your name, please leave enough information so that they can follow up on the information you provide. Most fraud cases do leave a paper trail.

Security reminder

Tips given on telephone use

The Communications Security Officer (Code 2408) has some helpful security reminders for all who use telephones in their daily work.

One of the most important things to keep in mind is that discussion of classified information over non-secure telephone circuits is prohibited. Individual employees should also understand that Department of Defense telephones are provided for the transmission of official government information so all DOD telephones are subject to communications security monitoring at all times.

For each employee, use of an official DOD telephone by the individual constitutes his or her consent to communications security telephone monitoring in accordance with DOD Directive 4640.6.

The Communications Security Office, NWC ext. 3521 and 3522, will be happy to answer any questions that may arise about telephone security and communications security telephone monitoring.

A good rule of thumb to go by when using any non-secure telephone is "Don't discuss anything you don't want to risk compromising."

There is also a Fraud Awareness Briefing that Booth is willing to give to groups of 10 to 20 government personnel. A lot of questions can be answered in regards to why seemingly "petty" violations are of so much interest to command.

He adds that not only is reporting a possible fraud a patriotic and honest thing to do, "it's also your tax dollar that's involved."

Hays retirement party set May 1

Those who plan to attend the retirement party for Burrell Hays, which will be held in the Enlisted Mess on Thursday, May 1, are asked to get in touch with the Program Coordinator's Office as soon as possible so that name tags can be made.

Everyone attending is asked to contribute \$5 towards the cost of hors d'oeuvres and other party expenses, and this money is now being accepted by Code 0031, located in the lobby of Michelson Laboratory.

The evening will begin with a social hour at 6 p.m., with presentations at 7 p.m. All Center personnel are invited to attend.

Further information about the party can be obtained by telephoning the Program Coordinator's Office at NWC ext. 2634 or 3379.

Altitude chamber big enough to hold submarine

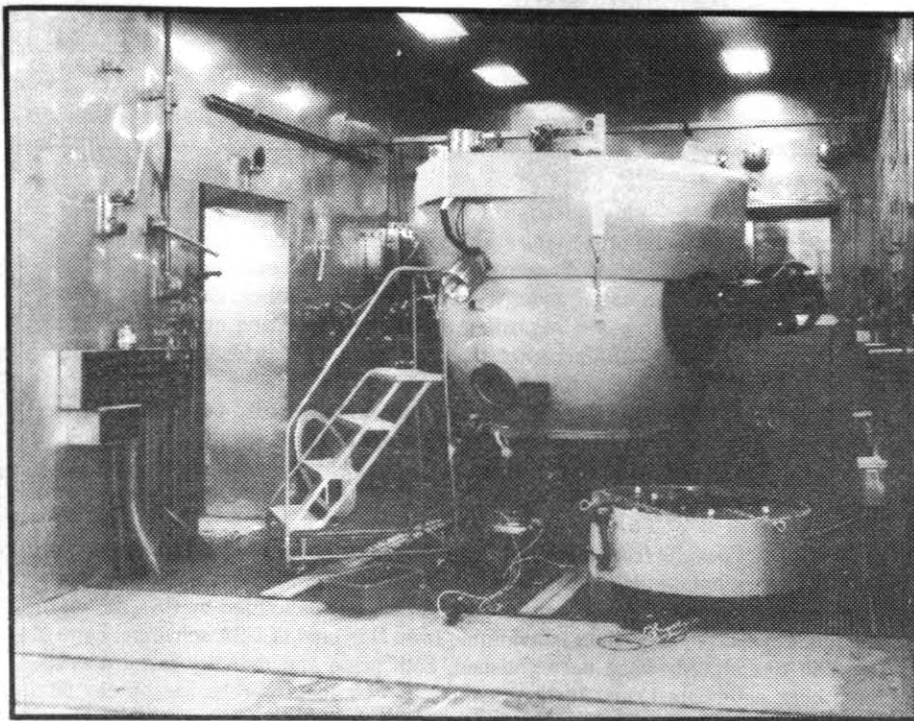
One of the unique facilities operated at China Lake for more than three decades has been a large altitude chamber located near the machine shop in Michelson Laboratory. More accurately termed an environmental simulator chamber, it was used to test everything from missiles and missile system components through a caterpillar tractor, jeeps, gas turbine engines and even a submersible, Deep Jeep.

The vehicle tests were conducted to determine whether winterized vehicles could withstand Arctic temperatures and remain functional, while the submersible was checked to see how long its battery system would be effective at the low temperatures encountered in ocean depths.

Tests in the large chamber (largest in this part of the country throughout more than 30 years) could be made with temperatures ranging from -100 to +165 degrees Fahrenheit, humidity ranging from above 95 percent to less than 20 percent, and it could also simulate a climb to 50,000 feet in about 5 minutes and dive from that altitude to sea level in 30 seconds.

Making the testing of large equipment possible was the large size of the chamber — 18 feet long by 12 feet wide by 10 feet high.

The machinery controlling the chamber was located in the basement of the laboratory, where it took the full force of the flood occurring on Aug. 14, 1984.



Soviet Navy to be discussed

All local residents will have an unusual opportunity to get a look at Soviet naval power and doctrine, and what in Soviet history has combined to produce this doctrine on Wednesday, March 26, at 6:30 p.m. in the Center theater at the Naval Weapons Center.

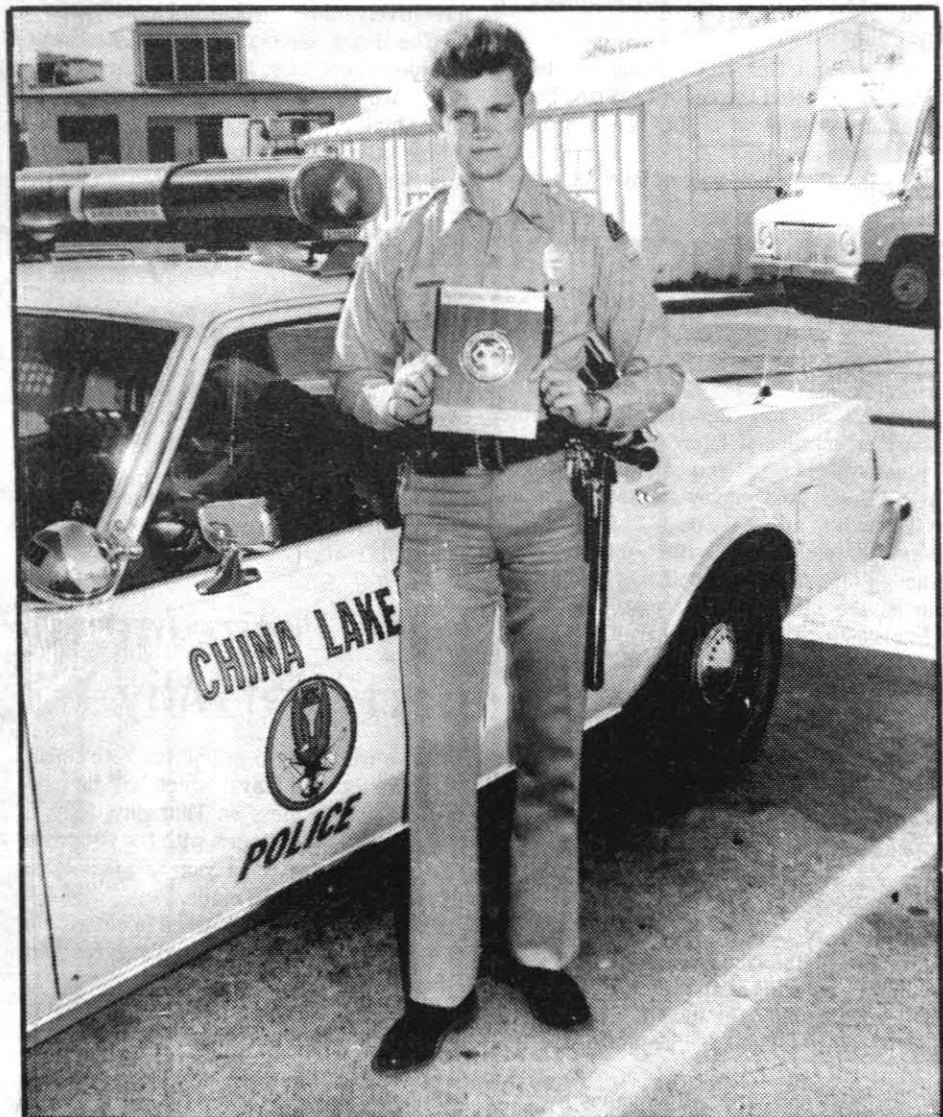
Presenting a two-hour multi-media view of "Soviet Seapower" will be a five-man briefing team, who will use slides, video tape, music and role-playing to give audiences an appreciation of the other major world naval power.

The theater will be decorated with propaganda posters, flags and Soviet naval crests to add realism to the production. A view of the American way of life will also be presented by "Kapitan-Leytenant Viktor Vladimirovich Tributs" and "Petty Officer Vladimir Ivanovich Aleksandrov," who are

actually two costumed members of the briefing team.

Tickets are not required for the evening's free performance. Center personnel, contractors to the Navy, their dependents and other local residents are urged to attend and to bring their older children along. The unclassified evening performance begins at the early hour of 6:30 so that young people will be able to attend even though it is on a school night.

In addition to the unclassified evening performance, two classified programs will be presented on March 26 and 27 from 7:30 a.m. until 2:45 p.m., with a lunch break. Admission to the classified briefs will be by ticket only; those who may find that they are unable to use their tickets are asked to return these to their department offices so that they can be appropriately re-issued.



SKILLS RECOGNIZED — China Lake Police Officer Ron Lewis shows the plaque he received from the Ridgecrest Afternoon Exchange Club for being selected by them as the outstanding CLPD officer of the year. Chosen as Ridgecrest officer of the year was Rick Lovett, and Larry Thatcher was selected as Kern County Sheriff's Deputy of the Year.



China Lake Police Reports

Four juveniles were arrested at Murray School because they were shooting fireworks. Their fireworks — more than 15 pounds of them — were confiscated, and they and their parents were counseled and advised about the illegality of fireworks aboard NWC. The case will be referred to probation authorities. (The juveniles had obtained the fireworks through a mail order catalog.)

A man living on Hayward Circle had his car repossessed because he had not been keeping up the payments.

A 9-year-old girl tried dialing the 911 emergency number to see if it actually works. When police responded and discovered that no emergency existed, they advised her and her parents that dialing that number without an emergency is a misdemeanor.

A traffic collision occurred at the intersection of Sandquist Road and East Inyokern Road when a driver from Sacramento made an unsafe turning maneuver. Vehicle 1 suffered minor damage; vehicle 2 suffered moderate damage.

Unknown persons removed four oxygen cylinders from Warehouse 10. Value of the missing cylinders is about \$550.

Someone burglarized the Diamond Four snack bar. Since missing items were candy bars and soda pop, police suspect they know the general age bracket of the burglar.

China Lake police assisted Ridgecrest police by giving a breathalyzer test to someone suspected of driving under the influence.

On Monday a military man walking home discovered a car stereo in a bush by his residence. He brought it in to the China Lake police station, where it can be claimed by the owner.

China Lake police assisted a Kern County sheriff's deputy in serving a subpoena on a Center employee at his work site.

An unknown person removed a jean jacket from the BEQ laundry room while its owner was doing a washing.

A man living on Nimitz called police at 2:30 a.m. Friday to report that his daughter's boyfriend was pounding on the front door. The subject was warned, advised and escorted off NWC by police.

An unattended, unlocked bike was found at the northeast corner of the Center theater. It has been removed to the police compound, where it can be claimed.

A Public Works Department employee told police that a radio belonging to PW that had previously been reported missing had been located and returned.

A resident of a house on Withington complained to police that someone removed \$20 in change from a jar adjacent to his bed.

On Friday evening a military man attempted to enter a restricted area with a camera. Since he was not authorized to have a camera in that area, he was denied entry.

A military man was stopped on board the Center at 3 a.m., was found to be driving under the influence, was held for five hours and then cited and released.

Lifecycles topic at seminar

Organizations undergo lifecycles just as humans do, according to Dr. Ichak Adizes, Chairman and Senior Associate of the Adizes Institute, an institute for managerial development.

Dr. Adizes will talk on "Organizational Passages — Diagnosing and Treating Lifecycle Problems of Organizations" at a Technical Director's seminar on Wednesday, April 2, at 9:30 a.m. in the Michelson Laboratory auditorium (Room 1000D).

All interested Center personnel are invited to attend. He will provide a model for identifying organizational styles, and will explain how this model can enable an organization to foresee problems it will face. Dr. Adizes will also present a framework for prescribing the treatments most likely to be effective to cure organizational ills depending on the lifecycle stage of the organization.

AE3 Linford represents China Lake at C/MAC

Aviation Electrician's Mate Third Class John Linford of Air Test and Evaluation Squadron Five (VX-5) will represent China Lake in High Desert Civilian/Military Affairs Council (C/MAC) Military Person of the Year Competition next month.

Petty Officer Linford will compete for this honor against representatives from Edwards AFB, George AFB, Fort Irwin and the Marine Corps Logistics Base at Barstow.

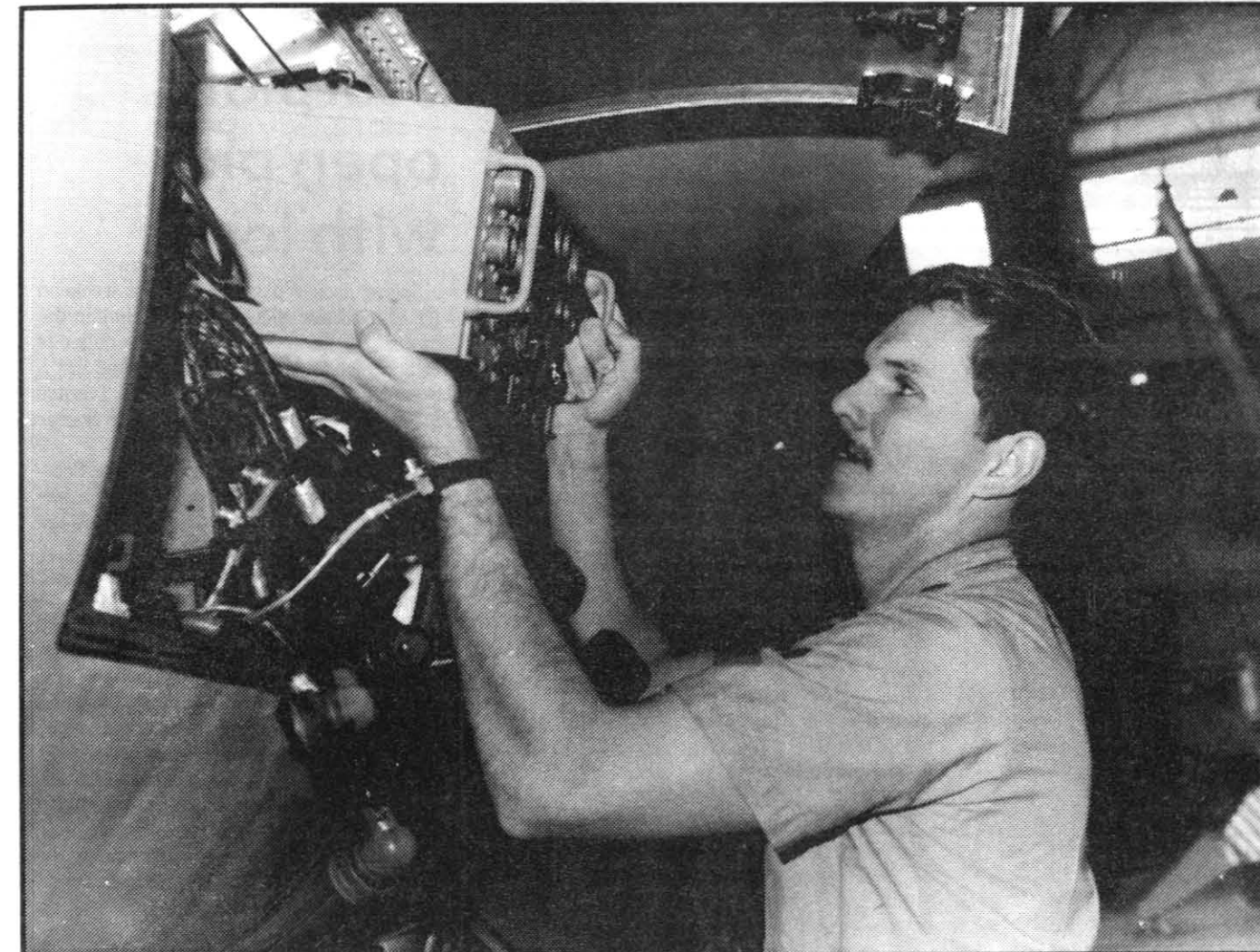
AE3 Linford is a native of Salt Lake City with more than three years active service

with Navy. A quality assurance inspector with the Vampires, Petty Officer Linford was VX-5's Sailor of the Month for October and Sailor of the Quarter for the fourth quarter of 1985.

When he was selected Sailor of the Month, AE3 Linford was commended by Capt. Marty Phillips, VX-5 Commanding Officer, for his "desire and ability to readily grasp technical concepts on the F/A-18,



Military News



CHINA LAKE REPRESENTATIVE — AE3 John Linford of Air Test and Evaluation Squadron Five (VX-5) will represent China Lake in the annual High Desert Civilian/Military Affairs Council Military Person of the Year competition planned for Joshua Hall in Ridgecrest in mid-April.

Smokeless tobacco also a hazard

Surveys show that cigarette smoking is decreasing throughout the United States. However, at least 10 million Americans — including a skyrocketing number of youths — are taking up another type of tobacco use.

Smokeless tobacco is a relatively new term for a product that's been used in North America for hundreds of years. It's made of tobacco leaves and a variety of sweeteners, flavorings and scents.

These ingredients, marketed in the form of chewing tobacco or snuff, are usually chewed or embedded in the mouth between the gum and cheek.

Use of smokeless tobacco is higher today than at any time since the 1930s, when machine-rolled cigarettes began replacing it in popularity, according to Neil Grumberg, associated professor of medical psychology at the Uniformed Services University of the Health Sciences, the nation's only military medical school.

Today, smokeless tobacco is a billion-dollar industry. Surveys show particularly high usage among males in the southwestern and southeastern United States.

Another recent trend is a significant increase in usage among young adults. One recent survey showed that as many as 40 percent of males between ages 12 and 17 have used snuff.

The increase in smokeless tobacco's popularity is creating concern about its associated health consequences.

The long-term implications of America's switch from cigarettes to smokeless tobacco

are unknown. But Dr. W. Frederick McGuirt of Wake Forest University Medical Center predicts that if the trend continues, Americans will still contract cancer, but in different parts of the body.

A recent National Institutes of Health panel warned that smokeless tobacco users are four times more likely than non-users to develop oral cancer. Other potential side effects are oral lesions, gum inflammation, and erosion of the bone that holds teeth in place.

Dr. (Maj.) William Dichtel, head and neck surgeon at Walter Reed Army Medical Center, said that, depending on the severity of the condition, these problems can lead to loss of large sections of the tongue and jawbone. This affects speech, sense of taste and the ability to swallow and can result in permanent tooth loss and scarring. Many of these problems persist even after reconstructive surgery, he said.

Dichtel said he has noticed a considerable increase in the number of patients

experiencing symptoms of smokeless tobacco use. However, he expects an even larger increase within the next seven years or so, when the increased popularity of snuff and chewing tobacco today becomes evident.

Another health concern is that smokeless tobacco can lead to the same cardiovascular disease, high blood pressure and nicotine addiction associated with cigarettes and other tobacco products.

Although no report on the hazards of chewing tobacco and snuff has been released by the U.S. surgeon general, legislators appear to be convinced.

In fact, the same federal laws that require warning labels and ban broadcast advertising of regular tobacco could be extended this year to include smokeless tobacco.

Among the warnings that have been proposed include: this product may cause oral cancer; this product is not a safe alternative to cigarettes; and this product may cause gum disease and tooth loss.

Commander's Cup action moves to racquetball play

Commander's Cup competition at China Lake moves to racquetball this month. The annual Racquetball Tournament is set for Tuesday and Wednesday of next week in the NWC Gym. Action begins at 1 p.m.

NWC Blue, NWC Gold and VX-5 will field teams in this annual competition. Interested personnel should call their command representative or the Recreational Services Department's Sports Branch.

A-7E, A-6, A-4 and OV-10 aircraft." The letter of commendation continued, "... readily assisting others, you have fostered a teamwork atmosphere within the command and earned the total admiration and respect of your shipmates."

Petty Officer Linford noted he had joined the Navy to take advantage of technical training offered and for the job security that comes with military service.

The VX-5 sailor said he enjoys his present assignment and the technical challenge at the squadron.

Petty Officer Linford enjoys flying model airplanes and listening to music when not busy with his Naval career. He and his wife, Monica have two children.

The year's award dinner to honor the High Desert Military Person of the Year will be held at Joshua Hall in Ridgecrest on Saturday, April 19, with dinner beginning at 7:30 p.m.

Guest speaker for the evening is the dynamic Principal Deputy Assistant Secretary of the Air Force (Manpower, Reserve Affairs and Installations), Karen Keesling.

The dinner and evening's program in honor of the nominees for the coveted award will cost \$25 per person. Tickets can be obtained by contacting Ridgecrest City Mayor Anna Marie Bergens at the Ridgecrest City Hall, or by telephoning her at 375-1321 and leaving a message.

Military services offer assistance

Want to get in touch with an old friend who has retired from the military service, including the Coast Guard? Although the Privacy Act prohibits the release of addresses, the retiree's service will forward a letter for you.

Write a letter to the retiree, place it in a stamped envelope with the retiree's name and your return address on it. In a note to the locator service, provide any information you can about the person you are trying to locate, such as name, rank, social security number, birth date and known duty stations. Also, state your reason for wanting to contact the person.

If you, as the requester, are active duty, active Reserve or retired from any service and you include your social security number, the Air Force does not charge for this service, although it does charge civilian requesters a \$2.65 search fee.

The addresses are: ARMY — HQDA, ATTN: DACF-ISRV, Alexandria, VA 22331-0522; NAVY — Retired Personnel Locator, Naval Reserve Personnel Command, 4400 Dauphine St., New Orleans, LA 70149; AIR FORCE — HQ AFMPC/DPMD 003, 9504 IH 35 North, San Antonio, TX 78233-6636; MARINE CORPS — Commandant of the Marine Corps, Marine Corps (MHP-30), Washington, DC 20380; and COAST GUARD — Commandant (G-PS-1), U.S. Coast Guard, Washington, D.C. 20593.

No policy on product

The Defense Department has no official policy on the health aspects of smokeless tobacco used by service members.

However, a new health promotion directive now in preparation is expected to include language discouraging use of all tobacco products.

Dr. (Maj.) William Dichtel, head and neck surgeon at Walter Reed Army Medical Center, said he strongly supports any initiatives that discourage smokeless tobacco use.

"People seem to have the idea that if no smoke goes into their mouth, there are no bad effects (from tobacco use)," he said. "It's unfortunate and tragic, but that's clearly not the case."

CSCI 270: SYSTEMS DESIGN (3 units)

24 June-21 August, Tuesdays and Thursdays, 1500-1730, Training Center. By: Professor John Zenor, CSUC.

Prerequisite: CSCI 171 and CSCI 172.

Scope: This course focuses on the early phases of the system life cycle: systems analysis and design. You will apply the experience gained in prior courses to the design and analysis of a system for a practical problem. Emphasis will be on the project-team approach. Readings will be assigned from the current literature in systems analysis, design, and software engineering.

Texts: *Mythical Man Month*, Frederick Brooks; *Notes on the Synthesis of Form*, Christopher Alexander, Harvard Press; and *Concise Notes on Software Engineering*, Tom DeMarco.

MATH 477: DISCRETE MATHEMATICAL STRUCTURES (5 quarter units)

9 April-11 June, Wednesdays, 1600-2100 (1-hour dinner break), Training Center. By: Professor El Ansary.

Prerequisite: Math 6A (Elementary Calculus) or consent of instructor.

Scope: Topics include logical deduction, induction, sets and binary relations, functions, graphs, trees, networks, combinations, lattices, and Boolean algebra (time permitting).

Text: *Discrete Mathematics*, Ross and Wright, Prentice-Hall.

Note: This is a required course for all undergraduate options in computer science.

BUSINESS AND PUBLIC ADMINISTRATION

BA 370: LEGAL ENVIRONMENT OF BUSINESS (5 quarter units)

8 April-10 June, Tuesdays, 1600-2100 (1-hour dinner break), Training Center. By: Professor Graves, CSB.

Scope: Introduction to the legal process—recognizing law as an instrument of social and political control in society. Topics include legal philosophy, judicial and administrative processes, constitutional protection for individuals, and government regulation of business.

Note: This is a required course for the BS in Business Administration.

PPA 691: SEMINAR IN PUBLIC POLICY ANALYSIS (6 quarter units)

7 April-9 June, Mondays, 1600-2100 (1-hour dinner break), Training Center. By: Professor Ruoss, CSB.

Scope: An integrating capstone seminar that focuses on initiation, formulation, and implementation of public policies. An exploration of policy models and policy analysis purposes and methodology. An analysis of contemporary policy areas: energy, the environment, criminal justice, welfare, education, foreign policy, and defense. An overview of political, legal, economic, and social institutions and their impact on public policy.

Note: This is a required core course for the MPA program. The class is limited to classified graduate students.

BA 477.067: TECHNICAL AND REPORT WRITING (5 quarter units)

7 April-9 June, Mondays, 1600-2100 (1-hour dinner break), Training Center. By: Professor Iyasere, CSB.

Scope: Extensive practice in writing clearly and persuasively in technical and specialized forms such as reports of experiments, abstracts, business reports and proposals, letters, and memorandums.

Note: A passing grade of "CR" or "C" or better in this course satisfies the writing competency requirement for CSB undergraduate and graduate students.

SOC 405: TECHNOLOGY AND SOCIETY (5 quarter units)

8 April-10 June, Tuesdays, 1600-2100 (1-hour dinner break), Training Center. By: Professor Julian, CSB.

Scope: This course examines the reciprocal relationship between technology and society, emphasizing the manner in which technological changes alter basic social institutions, including the family, religion, and the military, and even science itself. Special attention is given to the positive and negative impacts of technology on the individual and the dilemmas posed by the creation of a technology-

dependent economy.

Note: This course satisfies the General Education Goal XIII.

GENERAL COMMENTS

1. Textbooks are available at bookstores locally.
2. Job-related courses other than those listed above must be approved on an Off-Center Training Request (DD Form 1556) before registration if NWC is expected to pay for the training. For more information contact Cecil Webb, ext. 2648.

FWP has three priorities

The Federal Women's Program Steering Committee has identified the following three areas as their top priorities: career development and training for women, formation of a support network for new professionals (men and women), and child care.

Sub-committees are now being formed to address these areas. Each committee is in need of interested persons to serve. The committees will be responsible for presenting ideas and action items to the steering committee with regard to their specific area of concern.

Men, women, military and civilians are all encouraged to participate. Potential volunteers should phone the contact person for the committee on which they are interested in serving. The point of contact for career development and training sub-committee is Kay Farrell (3411, ext. 210). The professional support network contact is Karen Higgins (NWC ext. 2490) and Sheila Morgan (NWC ext. 2736) is the point of contact for the child care sub-committee.

EEO nominations sought

Nominations are now being sought for the 1985 Equal Employment Opportunity Awards that will be presented during American Heritage Week in May.

Three categories of individual award recipients include: supervisors at all levels of supervision and management who clearly excel in promoting EEO within their organizations; persons within program projects or activities with EEO implications whose work is not specifically EEO; and EEO program leaders who have specific responsibilities for EEO.

Additionally, the NWC Commander sponsors an award for the department that produced the overall best affirmative action results, as reflected in work force profiles.

Criteria for nominations can be found in NAVWPCENINST 5305.1B. Nominations should be forwarded to Code 091 no later than March 28. Representatives from the Center's EEO Advisory Committee will review the nominations and forward their recommendations to the Commander and Technical Director for their selection.



AMERICAN HERITAGE WEEK MAY 19-23



Promotional Opportunities

Applications for positions listed in this column will be accepted from current, permanent NWC employees and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. Alternative recruitment sources may also be used in filling these positions; vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements including minimum qualification requirements by the closing date. Applicants will be evaluated on the basis of experience, education, training, performance ratings and awards as indicated in the SF-171 along with any tests, medical examinations, performance evaluations, supplemental qualification statements and/or interview that may be necessary. Career ladder promotions are subject to satisfactory performance and cannot be guaranteed. **APPLICATION PROCEDURES:** Candidates must submit a current SF-171, along with a supplemental qualifications statement (if required), and should submit a copy of their latest Annual Performance Evaluation if relevant to the vacancy. If a supplemental statement is not required, candidates are encouraged to submit additional information which addresses the specific Knowledges/Skills/ Abilities (KSAs) cited in the ad. Write the position title/series/level and announcement number of the SF-171 and all attachments. Be sure that your forms are complete and accurate since you cannot be rated on missing data nor will you be contacted for additional information. Be certain the SF-171 and supplement are dated and have original signatures in ink.

All applications will be retained in the vacancy announcement file; they will not be returned or filed in official personnel folders. Applications and supplements are accepted at the Reception Desk, Room 100, Personnel Department, 505 Blandy. Ads close at 4:30 p.m. on Friday, one week after the announcement, unless otherwise specified. Applications received after 4:30 p.m. on the closing date will not be considered. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

No. 08-002, Accounting Technician, GS-525-4/5, Code 08622 — This position is located in the Cost Accounting Branch of the Accounting Division. Incumbent will serve as an Accounting Technician in the control and maintenance of cost accounting records and subsidiary ledgers for the Major Contracts Section. Duties include the review of incoming contracts and amendments for accuracy and completeness; reconciling subsidiary ledger accounts; extracting necessary information from source documents, collating the data and preparing forms to enter the data into the automated system; auditing computer outputs for accuracy; validating historical costs and transactions; and researching aged financial information to clear accounts. Incumbent has extensive contact with NWC project, budget, and supply personnel and provides information on various vendor inquiries. **Knowledges:** of Integrated Disbursing and Accounting System; of Document Entry System; of NWC accounting system; of NAVCOMPT regulations. **Abilities:** to work accurately with figures; to meet financial work deadlines; to deal effectively with people. Promotion potential to GS-6, but not guaranteed. Previous applicants need not reapply.

No. 08-018, Lead Accounting Technician, GS-525-6/7, Code 08622 — This position is located in the Cost Accounting Branch, Accounting Division of Central Staff. Incumbent will serve as a Lead Accounting Technician in the control and maintenance of Cost Accounting records and subsidiary ledgers for the Major Contracts Section. Duties include distributing and reviewing work for accounting technicians in the section; providing on-the-job training and technical support in the section; assuming supervisory duties when needed; review-

ing incoming contracts and amendments for accuracy and completeness; reconciling subsidiary ledger accounts; extracting information from source documents, collating the data and preparing forms to enter the data into an automated system; auditing computer outputs for accuracy; validating historical costs and transactions; and researching aged financial information to clear accounts. Incumbent has extensive contact with NWC project, budget and supply personnel and provides information on various vendor inquiries. **Knowledge:** of NWC personnel policies and procedures; of the theories, principles, practices and techniques of double entry accounting; of the Integrated Disbursing and Accounting System; of the Document Entry System; of NWC Accounting Cycle; of NAVCOMPT regulations. **Abilities:** to reconcile ledger accounts; to meet financial work deadlines; to provide training; to communicate effectively with all levels of NWC employees and various vendor personnel. Promotion potential to GS-7.

No. 08-019, Program Analyst, DA-345-1, Code 0861 — This position is located in the Central Staff, Accounting Division, General Accounting Branch. Incumbent will serve as a Program Analyst for systems review and implementation in the General Ledger Section. Duties include review of general ledger accounts for compliance with regulations; recommendations for revisions to current procedures; review and implementation of procedures under STAFS; preparation and revision of research and reconciliation procedures for general ledger accounts and cash reconciliation; developing automated financial statement and summary sources of revenue. **Abilities:** to communicate effectively with individuals at all organizational levels orally and in writing; to gather and analyze fi-

nancial data. **Knowledge:** of current NWC financial system operations and procedures; of NWC administrative policies, procedures, and regulations; General Ledger Accounts. Promotion potential to DA-3.

No. 08-020, Payroll Supervisor, GS-544-8/9, Code 0853 — This position serves to manage the Payroll Branch office operations and supervises two section heads responsible for direct supervision of 15-18 payroll technicians and clerks in the Customer Services Division, Code 0853. Duties include scheduling and assigning work, establishing procedures, training guidelines for new employees, providing direction and assistance. The incumbent is responsible for the establishment and maintenance of the basic master control accounts for leave and payroll, prepares and oversees the preparation of continuing and special report requirements, serves as the control and liaison point of contact for all payroll processing, special accounts, and labor distribution accounting. **Knowledges:** computerized payroll system; leave and labor accounting. **Abilities:** to interpret and communicate Federal payroll and leave regulations; to supervise. Must be willing to support NWC EEO goals and objectives. Promotion potential to GS-9.

No. 08-021, Mail/File Clerk, GS-305-3/4, Code 0852 — This position is located in the Command Mail, Files and Records Branch. Incumbent will work in the central mail unit of the Naval Weapons Center and is concerned with opening and processing incoming first class mail, routing items by content, sorting mail for distribution, and maintaining files. **Knowledges:** NWC organizational structure; Navy filing system. **Skill:** interfacing with diverse groups of people. Promotion potential to GS-5.

No. 24-007, Clerk-Typist, GS-322-3/4, Code 2432 — This position is located in the Personnel Security Section of the Information Security Branch. Incumbent performs clerical duties which includes processing employee security clearances, fingerprinting, typing clearance letters, and messages, originating foreign travel messages, maintaining logs, filing and mailing. Position provides support in personnel security action. **Elements:** Ability to acquire knowledge of regulation and directives relating to personnel clearances, message processing and foreign travel requirements. Ability to effectively interface and communicate orally and in writing. Promotion potential to the GS-4 level.

No. 24-011, Computer Specialist, DS-334-1, Code 2405 — This position is in the Systems Office, Safety and Security Department. Incumbent will assist in the design, development, analysis, installation, administration and management of microcomputer hardware/software systems and related networks. Incumbent will serve as Network Administrator (Revelation) for the Department. Incumbent's duties will be in support of a large number of microcomputers and networks distributed among seven different locations on Center. The implemented systems include more than 70% of the processes performed within the Department and include Employee Badging, Vehicle Registration, Safety Accident Tracking, Fire Dispatch, Police Recordkeeping in addition to general functions such as work processing, spreadsheet, and database operations. Incumbent will be required to serve as an instructor in the Wordstar, Lotus and Revelation software, as well as the MS-DOS/PC-DOS operating systems. **Knowledges:** Knowledges of IBM PC/XT/AT's, knowledges of printers, plotters and networks, knowledge of work processing software. **Ability:** to perform systems analysis and prepare functional requirements documents; to research user requirements and prepare procurement documents and detailed specifications; to teach various classes

relating to microcomputer hardware and software; to install and interface various microcomputer hardware and peripherals. Promotion potential to DS-2.

No. 26-011, Clerk-Typist, GS-322-3/4, Code 2634 — Incumbent will provide clerical support to the Mechanical and Design Production Control Branches. **Elements:** Knowledge of grammar, punctuation, spelling, proper format; of filing systems and files management. **Ability:** to receive and refer phone calls and visitors; receive and distribute incoming mail; to prepare timecards, personnel forms, travel orders and itineraries. Promotion potential to GS-4.

No. 26-012, Clerk-Typist, GS-322-3/4, Code 2694 — Incumbent will provide clerical support to the Support Services Branch. **Elements:** Knowledge of grammar, punctuation, spelling, proper format; of filing systems and files management. **Ability:** to receive and refer phone calls and visitors; receive and distribute incoming mail; to prepare timecards, personnel forms, travel orders and itineraries. Promotion potential to GS-4.

No. 36-137, Model Maker, WG-4714-14, Code 3647 — This position is located in the Mechanical Prototype Branch, Engineering Prototype Division, Engineering Department. The job involves independent performance of a variety of planning, layout, welding, modifying, fabricating and assembly of research and development prototype models. Requires ability to establish job requirements and procedures for a variety of trades to follow in completing projects. **Elements:** Ability to do the work of the position without more than normal supervision; do the theoretical, precise, and/or artistic work of the trade; interpret blueprints and understand dimensions, shapes, material finish, etc; use hand tools. **Knowledge of:** measurement and layout; theoretical and practical knowledge or metals used in accomplishing the work required of the position. Supplemental required and maybe picked up in Room 100 of the Personnel Department.

No. 36-140, Clerk-Typist, GS-322-3/4, Code 364 — This position provides clerical support to the Engineering Prototype Division Engineering Department. Duties include typing letters, memoranda, reports, and forms from rough drafts, notes or oral instructions; reviewing correspondence for correct grammar, punctuation, spelling, and proper format; receiving and directing customers/visitors and phone calls; receiving and distributing incoming mail; maintaining files, preparing and handling time cards, travel orders, and itineraries; and requisitioning supplies. **Elements:** Skill of a qualified typist. **Knowledge of:** grammar, punctuation, spelling, and proper format; filing systems and files management. **Ability:** to receive and refer phone calls and visitors; personnel forms, travel orders and itineraries, and requisition supplies. If filled at the GS-3 level, promotion potential to GS-4.

No. 36-141, Machinist Helper, WG-3414-5, Machinist, WG-3414-8, Code 3644 (Multiple Vacancies) — Supplemental Required. These positions are located in the Central Model Shop Branch, Engineering Prototype Division, Engineering Department and are part of a prejourneyman development program. The incumbent will operate conventional and NC/CNC machine tools, including lathes, milling machines, saws, drill presses, and grinding machines. Incumbents grind metals, metal alloys and non-metallic parts; make minor machine adjustments and setups; check own work using tools common to the trade; and perform general branch work using hand tools. **Elements:** Ability to: set up and operate conventional machine tools and attachments; use hand and power tools; to perform machining operations. Skill in machining parts to required tolerances. **Knowledge of:** machinist trade theory and

technical practices; shop drawings, lay-out work and measuring devices; hand tools and fitting. Promotion potential to WG-11.

No. 36-138, Sheetmetal Mechanic, WG-3806-10/11, Code 3647 — This position is located in the Mechanical Prototype Branch, Engineering Prototype Division, Engineering Department. The job involves planning, layout, welding, modifying, fabricating, and assembling of research and development prototype models. Operation of all types of metalworking power-and-hand-operated machines is required. Elements: Knowledge of: sheet metal or structural metal equipment. Ability to: understand shop manual instructions, specifications, and blueprints; develop and transfer shapes, outlines, and forms from drawings, sketches, blueprints; use metalworking and hand tools common to the sheetmetal trade; determine the corrosive properties of the different metals common to the sheetmetal trade; do the work of the position without more than normal supervision. Promotion potential to WG-14.

No. 36-142, Administrative Officer, DA-341-2/3, Code 3680 — Incumbent is responsible for project and overhead financial management; personnel management support for the division; assists division management in manpower resource planning and projection; and participates in division management meetings. Incumbent identifies administrative and management problems within the scope of the division and recommends alternatives. Other duties include providing ad hoc administrative support to department requirements. Elements: Knowledge of: NWC administrative policies and procedures; of NIF accounting system. Ability to: communicate orally; to communicate in writing. Promotion potential to DA-3.

No. 39-005, Security Clerk (Typing), GS-303-3/4/5, Code 39E — This position is located in the Advanced Projects Office, in the Weapons Department. The position will be responsible for providing documentation control in the acquisition, cataloging, issue and return of classified and unclassified documents and other related materials. KSAs: Knowledge of Navy, NWC classified material handling procedures. Skill in operating IBM Displaywriter. Ability to plan, organize and accomplish work independently. Ability to perform other clerical functions. Promotion potential to GS-5.

No. 39-003, Electronics Technician, DT-856-1, Code 3945 — This position is located in the System Integration and Evaluation Branch of the Weapons Department. Duties are performed in support of NAVVPNCEN's technical program in-

clude: interpretation of electronic block and schematic diagrams and mechanical drawings; design, layout, fabrication and testing of electronic circuits; and the use of basic electronic test equipment. KSAs: Ability to interpret electronics block and schematic diagrams and mechanical drawings; ability to perform design, layout, and fabrication of digital, analog and video circuits; ability to use electronics test equipment. Promotion potential to DT-3.

No. 61-008, Supply Clerk (Typing), GS-2005-3/4/5, Code 6142 — Multiple Vacancies. This position is located in the Ordnance Control Branch of the Ordnance Division, Aircraft Department. Responsible for the procurement, shipping, inventory, receipt of ammunition/weapons to support NWC projects. Abilities: to interpret naval instructions and supply documents; to communicate with other activities. Knowledge (for GS-5): of weapons systems to convey Center requirements for weapons components.

No. 621-027, Engineering Technician, DT-802-1/2, Code 62121, (Multiple Positions) — These positions are located in the Nondestructive Evaluation Section. The incumbent will work as a team member in the performance of nondestructive inspections of ordnance and ordnance related items. The incumbent will perform a variety of tasks in accordance with established methods including, but not limited to x-ray inspections, moments of inertia, helium leak detection, weights and measurements, center of gravity, mass eccentricity, and associated inspections. Duties will involve preparing high hazard specimens for inspection, operation of inspection equipment, analysis of data, and filing reports. Knowledge: of x-ray inspection techniques. Abilities: to communicate both orally and in writing; to work as a team member. Promotion potential to DT-3.

No. 621-028, Ordnance Equipment Mechanic, WG-6641-10, Code 62123 — This position is located in the Environmental Engineering and Evaluation Branch, Safety Test Section. The incumbent performs test setup, instrumentation system checkout and conducts safety testing of a wide range of ordnance items and weapons. Tests include fuel fire, slow heating, bullet impact, drop, and other safety related tests. Evaluates and reports the test results. Knowledges: of equipment assembly, installation, repair, etc.; of troubleshooting; of technical practices. Abilities: to use and/or operate tools and equipment; to use measuring instruments; to read, interpret, and apply instructions and specifications.

No. 621-029, Mechanical Engineer, DP-830-1, Code 62120 — This position is located in the Environmental Engineering Group. The incumbent coordinates environmental test programs, follow up on the test progress and status, generates test procedure documents, interfaces with the customers, analyzes the test data, and issues the final reports. Assists in performing engineering tasks in support of the Center acquisition programs as required, and develops new environmental test techniques. Knowledges: of environmental test and procedures; of environmental recording devices and test measurement equipment. Abilities: to coordinate a variety of activities; to communicate effectively both orally and in writing; to work as a team member in performance of duties.

No. 623-007, Meteorological Technician, DT-1341-3, Code 62342 — This position is head, Range Meteorology Office, Range Support Branch, Range Instrumentation Division, Range Department. The range meteorological office is the focal point for the Range Department's meteorological requirements; providing technical liaison to the contractor meteorological support group, maintaining NWC climatological records, representing NWC in the Meteor-

ological Group/Range Commander's Council and planning for the long-range improvements of the meteorological data acquisition systems. The incumbent reviews all test plans for meteorological requirements and briefs contractors, inspects contractor-supplied meteorological data and provides quarterly evaluation of contractor performance. The incumbent prepares and distributes a monthly summary of NWC weather and provides new climatological studies, as needed, and updates already published studies. Knowledges: of meteorological data collection instruments and systems. Skill: in analyzing meteorological data. Ability: to communicate effectively with project managers and engineers and NWC range customers.

No. 00-005, Operations Research Analyst, DP-1515-4, Code 01A2 — This is a temporary promotion not to exceed 1 year. This is a Technical Advisor position serving as Deputy to the Director of Technical Support Group (TSG). Knowledges: of sensitive intelligence materials and tactical operations; of weapons systems; of systems analysis methodology. Skill: in dealing with diverse groups of people.

Reassignment opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applicants must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applications should be filed with the person whose name is listed in the announcement. The Naval Weapons Center is an Equal Opportunity Employer.

No. 35-034D, Detail Assignment, Code 3506 — The HARM program office has an opportunity for a person who is interested in establishing an automated indexing and key work retrieval system for technical and administrative documents. The individual would be responsible for evaluating and acquiring suitable software for maintaining the HARM Technical Library records. This individual would also perform analysis necessary to determine the best method for capturing and maintaining those records most probably required by HARM managers. Once the automated system is established, it is anticipated that maintenance of the system would be done by other persons. This detail assignment would provide experience for who are interested in establishing qualifying experience for analytical administrative and specialist positions such as Administrative Assistant, Computer Specialist, Management Analyst. Interested individuals should contact Mike Schmidt at extension 2951.

No. 35-031R, Interdisciplinary (Electrical/Electronics Engineer, Physicist, Mathematician), DP-850/855/1310/1520-2/3, Code 35124 — Incumbent will participate in electronic warfare system effectiveness and requirements studies, plus tasks involving digital simulation of missile fly-out, electronic jamming of radar, and other aspects of EW influence on aircraft survivability. Systems addressed may involve expendable decoys, missile seekers, missile detectors, DECM jammers, radar warning receivers, and ARM sensors. To apply, send an updated SF-171 to Ray Skipping (Code 35124), ext. 3170.

No. 35-032R, Interdisciplinary (Electronics/Electrical Engineer, Physicist), DP-855/850/1310-2/3, Code 35123 — Incumbent will be involved in studies and analysis of Naval aviation electronic warfare equipment and techniques. To apply, send an updated SF-171 to John J. Clark, Code 35123, ext. 3170.

No. 35-030R, Interdisciplinary (Electronics/Electrical Engineer, Mathematician, Physicist), DP-855/850/1310/1520-2/3, Code 35122. Incumbent will be involved in the analysis, digital simulation, and

evaluation of a variety of EO/IR systems, subsystems, and techniques, along with their countermeasures and counter-countermeasures. Programming ability in FORTRAN is required. A background in one or more of the following areas is desired; principles of missile flight and guidance, IR propagation and detection, principles of EO devices, or mathematical modeling. This work involves both "quick look" and longer term task assignments. To apply, send an updated SF-171 to Don Goodson, Code 35122, ext. 3170/2513.

No. 35-033R, Interdisciplinary (Operations Research Analyst/Computer Scientist/Mathematician/Electronics Engineer/Physicist/General Engineer), DP-1515/1550/1520/855/1310/801-2/3, Code 3513 — Incumbent will be responsible for developing and administering data bases containing threat intelligence data for Code 3513. This will require interfacing with users from throughout the Department to ensure that data and format are compatible with specific needs. Other tasks may involve data analysis using threat data from various sources. Some computer experience is desired, but is not a major requirement. Incumbent must possess or be able to obtain a Top Secret security clearance. To apply for this position, submit a current SF-171 to Edna Fujiwara, Code 3513, NWC ext. 3998.

No. 623-006, Interdisciplinary (Aerospace, Electronics Engineer/Physicist/Computer Scientist), DP-861/855/1310/1550-2/3, Code 62332 — This position is located in the Telemetry Data Section, Telemetry Operations Branch, Range Instrumentation Division, Range Department. The incumbent will incorporate, test and document various electronic interfaces between telemetry and computer hardware. The incumbent will design, test and document device drives and data handlers used for the display of telemetry data. A thorough knowledge of PCM, PAM and FM/FM telemetry systems; VAX 11/781 and PDP 11/45 computer systems; and VMS, RSX 11M, Fortran 77 and assembly languages is required. Send SF-171 to R. Rockwell, Code 6233.

Recent Separations

Code	Name	Title
0854	Gee, Sophie E.	Clerk-typist
3113	Dillinger, John A.	Electronics Tech.
3331	Puterbaugh, Herbert J.	Electronics Engr.
36012	Strommen, John N.	General Engr.
36211	Fredle, James D.	General Engr.
39B2	Creuse, Melville C.	Electronics Engr.

Non-appropriated Funds Arrivals

2222	Yvonne Campbell
2222	Lillian Davis
2211	Judith Monroe
2213	Sherrie Taylor
2227	Amy Cooper

Non-appropriated Funds Departures

2225	Lee Sangchan
2213	Alan Barker
2225	Raymond Kuo

Personnel Development Opportunity

FILES IMPROVEMENT AND RECORDS DISPOSITION

April 22-24, Tuesday-Wednesday, 0800-1130, Training Center. By: Pam Rivera.

Scope: This class is designed to help record keepers understand and apply basic rules related to filing. Topics covered are standard filing procedures; eliminating needless filing; cross-referencing; indexing; and using filing aids such as color codes, labels, file guides, and recommended file folders. Use of the Navy Standard Subject Identification Code and the use of microfilming, identification of record material, disposal of records, and use of the Federal Records Centers for storage will be discussed.

Deadline: April 9.

SPECIAL SESSION FOR SECNAVINST 5216.5C

April 3, Thursday, 0900-1100, Training Center. By: Odessa Newman.

Objectives: This is a two hour session to answer special questions regarding the use of SECNAVINST 5216.5C, Dept. of the Navy Correspondence Manual. It will be open to technical writers, secretaries and other clerical personnel and will be conducted on a drop-in basis with no paperwork required.

ENGLISH AS A SECOND LANGUAGE, PART I

7 April-30 June, Mondays only, 1530-1830, Training Center. By: Joan Telles.

Prerequisite: A college degree or consent of the instructor.

Scope: Designed to help second-language learners become familiar with the phonetic system, basic stress and intonation patterns, and word-order structures in the English language. Emphasis will be on improving oral communication skills through audio-lingual drills and situational dialogues.

NOTE: Non-NWC employees will be allowed in this class on a space available basis.

Deadline: 3 April.

ENGLISH AS A SECOND LANGUAGE, PART II

10 April-26 June, Thursdays only, 1530-1830, Training Center. By: Joan Telles.

Prerequisite: English As A Second Language I or consent of instructor.

Scope: This course will help second-language learners perfect oral and written communication skills and develop "cultural competence" by focusing on cultural and structural problem areas and vocabulary development. Subjects to be covered include the correct usage of articles, idioms, prepositions, and verbal constructions.

NOTE: Non-NWC employees will be allowed in this class on a space available basis.

Deadline: 10 April.

California State University Spring Classes

The following classes are being offered this spring for the Cal-State Chico Computer Science Program (bachelor's and master's degrees) and the Cal-State Bakersfield Business (bachelor's degree) and Public Administration (master's degree) Programs.

To enroll in these classes (other than Cerro Coso), submit a Training Request (NAVVPNCEN 12410/73) via department channels to Code 094. Registration will be held in class at the first class meeting. Deadline

for enrolling is 10 calendar days before the starting date of the class. Although training requests will be accepted after the deadline, that date will be used to determine whether the class will "go."

COMPUTER SCIENCE

CSCI 172: SYSTEMS ARCHITECTURE (3 units)
19-20 April; 17-18 May; 21-22 June; Saturday and Sunday, 0800-1600; Training Center. By: Professor Roy Crosbie, CSUC.

Prerequisite: CSCI 151, 171, passing grade in writing proficiency test (undergraduates only).

Scope: The course will identify and discuss the individual elements of complete computer systems. Problems relating to the interconnection of these elements will be defined and analyzed from the viewpoint of total system performance. This is a writing proficiency course.

Text: *Introduction to Computer Architecture*. Stone, Scientific Research Associates, 1980.

Note: This is a core class required for all options (BS and MS) except Computer Engineering.

Note: The course dates have been changed back to the originally scheduled dates.

CSCI 376: THEORY OF INFORMATION RETRIEVAL (3 units)

26-27 April; 7-8 June; and 12-13 July; Saturday and Sunday, 0800-1600; Training Center. By: Professor George Arnovick.

Prerequisite: CSCI 172 (Systems Architecture), or consent of instructor.

Scope: This course is a graduate seminar on the theory of information retrieval systems. The major problems of modern information storage and retrieval systems are presented and discussed. Various theoretical as well as selected applied approaches will be studied and likely solutions will be presented and analyzed.

Text: *Modern Information Retrieval Systems*. Gerald Salton, McGraw-Hill.

Note: This is a required class for the masters program in software engineering. For more information call Steve Lee, ext. 2468.

CSCI 250: COMPILER THEORY (3 units)

3-4 May; 31 May-1 June; 28-29 June; Saturday and Sunday, 0800-1600; Training Center. By: Professor Orlando Madrigal, CSUC.

Prerequisite: CSCI 151.

Scope: This course is intended as a first course in theory and the translation of programming languages. The course will cover language definition and descriptors, syntax structures, parsing, extraction of elements, symbol table construction, memory allocation, control statements, I/O lists, code generation, error detection, and diagnostic generation. Topics include introduction to compiler theory (programming languages, translator types, and arithmetic expressions and ALGOL target codes); formal languages; introduction to syntax analysis; precedence parsing; LR(0) and SLR parsing; LR(1), LALR; syntax directed translation; forms of the immediate code; code generation and optimization; run time storage management; and future research.

Text: *Compilers-Principles, Techniques and Tools*. Aho, Sethi, Ullman.

CSCI 397C-2: ADVANCED TOPICS IN COMPUTER GRAPHICS (3 units)

14-15 June; 19-20 July; 16-17 August; Saturday and Sunday, 0800-1600; Training Center. By: Professor James Murphy.

Prerequisite: CSCI 231.

Scope: This course is a treatment of advanced topics in computer graphics with emphasis on rendering three-dimensional scenes on raster displays with antialiasing, clipping, hidden surface removal, and shading. Topics include frame buffer architectures; color lookup tables; gamma corrections; Cromenco stand-alone; raster technology terminal; scan conversion of lines, polygons, and antialiasing; 3D-object representation; image processing (histogram equalization, thresholding, and edge detection); 3-D clipping; polygon clipping; hidden line removal-Roberts algorithm; hidden surface removal-Warnock, Z-buffer, scan line, and ray tracing; fractal surfaces and fractal sets; texture mapping; Gourand and Phong shading; diffuse and specular reflection; transparency and shadows; and frame buffer animation techniques.

Texts: *Procedural Elements for Computer Graphics*, Rogers, McGraw-Hill, 1985, paperback (required) and *Fundamentals of Interactive Computer Graphics*, Foley and VanDam, Addison-Wesley, 1982 (recommended).

Secretarial opportunities

This column is used to announce secretary positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of the organization, its objectives and lines of communication. Depending on grade level, typical secretary duties are implied by the job relevant criteria indicated below.

Applicants will be rated against 4 or more of the following job relevant criteria: (1) ability to perform receptionist and telephone duties; (2) ability to review, track, screen and distribute incoming mail; (3) ability to review outgoing correspondence; (4) ability to compose correspondence and/or prepare non-technical reports; (5) knowledge of filing systems and files management; (6) ability to meet the administrative needs of the office; (7) ability to train clerical personnel and organize workload of clerical staff processes; (8) ability to plan and coordinate travel arrangements; (9) ability to maintain and coordinate supervisors' calendar and to arrange conferences.

Unless otherwise indicated, applicants for Branch Secretary will be rated on elements 1/2/3/5/8; Division Secretary applicants will be rated on elements 1/2/3/4/5/4/7/8/9; Program Office Secretary applicants will be rated on elements 1/2/3/4/5/8/9; and Department Secretary applicants will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 32-200, Secretary (Typing), GS-318-4/5, Code 3263 — Provides secretarial support to Weapons Systems Branch "A". Knowledge and working skill on a Xerox 640 desirable. Promotion potential to GS-5.

No. 32-203, Secretary (Typing), GS-318-4/5, Code 3264 — Provides secretarial support to the Bigeye Program Office. Knowledge and working skill on Xerox 640 desirable. Promotion potential to GS-5.

No. 36-136, Secretary (Typing), GS-318-5/6, Code 3606 — Incumbent provides secretarial support to Harpoon Program Office. Secret clearance required. Promotion potential to GS-6.

No. 36-138, Secretary (Typing), GS-318-4/5, Code 3643 — The incumbent will provide secretarial support to the head, Quality Control Branch. Promotion potential to GS-5.